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REPORT OF SEED ANALYSES 1927

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C. G. JORDAN, *Secretary of Agriculture*

R. H. BELL, *Director, Bureau of Plant Industry*

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POINTS TO REMEMBER WHEN BUYING SEED

Quality should be the first consideration, price second.

Seeds of good quality increase farm profits.

The presence of weed seeds makes cheap seed expensive.

Weeds are estimated to cost the farmer $2.00 per year for every acre of tillable land. Cheap seeds are a common source of weed infestation.

The law requires that seeds sold in quantities of 10 pounds or more shall bear a label giving the analysis and germination. Don't buy seeds without seeing the label; the information on it will show you the quality of the seed.

Don't buy seeds from mail order houses outside the state; the seed law cannot protect you if you are cheated.

Buy from reliable dealers in Pennsylvania.

REPORT OF SEED ANALYSES

1927

By E. M. Gress, Ph. D.
and
Mary C. Mowry, *Seed Analyst.*

Bureau of Plant Industry

GOOD FARM SEEDS AND SUCCESSFUL AGRICULTURE

Any factor which increases the cost of producing a crop or that reduces the yield is causing a cut in the farmers' profits. Farmers would be astonished if they fully realized the loss caused by sowing poor seed. These losses are brought about in a number of different ways.

1. By sowing seed not adapted to soil conditions and climate.
2. By sowing seed not well developed and properly matured and stored.
3. By sowing seeds of a low percentage of purity.
4. By sowing seeds that do not germinate well.
5. By sowing disease infected seed.

First—The variety and source of growth of seed should be given careful consideration. It is a well known fact that some varieties of corn, wheat and other seed will produce a better yield in certain regions than other varieties.

Select Adapted Seed

No longer is the animal breeder satisfied with the scrub breeds, but chooses those breeds best suited to his purpose. So should the farmer select the varieties and strains adapted to his soil and climatic conditions. He should not be satisfied to sow clover seed grown in the mild, sunny climate of southern Italy and expect it to stand the rigors of the winters of Central and Northern United States.

Second—After deciding upon the variety of seed to be used, the quality should be given serious attention.

A seed is a young plant stored away in a seed coat with sufficient food to give the young plant a start. Other things being equal, the large seed with a greater amount of stored food will give the young plant a better start than the smaller seed with a less amount of food.

A few years ago the Ontario Agriculture College raised on an average for seven years, 62 bushels of oats per acre from large seeds and only 47 bushels per acre from small seeds both being selected from the same stock and grown under exactly the same conditions each year. The difference between 62 bushels and 47 bushels or 15 bushels per acre is clear profit, since the cost of producing the smaller yield would be practically the same as that of the larger yield.

Test Seed for Purity

Third—Seeds should be tested carefully for purity. Perhaps the farmers in Pennsylvania and elsewhere are still sowing wheat that greatest loss to the farmer is caused by the sowing of seeds that contain other seeds particularly those of noxious weeds. Many contains garlic. Positive proof of this is found in the wheat that is now going into the Baltimore market. Eighty per cent of the cars of Pennsylvania wheat on the Baltimore market so far this year graded garlicky. The discount on garlicky wheat ranges from seven to ten cents per bushel. The presence of one bulblet in a sample of two quarts is all that is necessary to cause it to be graded as garlicky.

Another weed seed which causes a discount on wheat is that of cockle, one to two per cent causing a discount of three cents per bushel while three to five per cent will cause as much as eleven cents discount. These two weed impurities in the wheat alone are taxing the farmers heavily, and in addition are polluting their farms with noxious weeds which will cause additional losses.

These losses due to impure seeds are not confined to one kind of crop. The seed laboratory of the Pennsylvania Department of Agriculture recently analyzed a sample of red clover seed which a seed firm purchased from a farmer in southeastern Pennsylvania, and which showed more than 50 per cent weed seeds.

There were present 46 per cent of buckhorn or narrowleaved plantain seeds, while the remaining weed seeds were made up of many other noxious weeds. The farmer who sold this clover seed was quite indignant because he received less than 50 per cent of the market price for it; nor did he sell his entire crop, but kept enough for himself and some of the neighbors who are willing to buy on price rather than quality. The injury from sowing such worthless stuff can not be determined, and the loss to the farmer is enormous.

Financial Loss Heavy

Fourth—Another factor which is reducing the farmer's profit is the sowing of seeds that do not germinate well.

Most of the agriculture states have a seed law which requires that seeds sold for seeding purposes shall show on the label the percentage of germination with the date when such germination test was made. There are many factors, none of which can be detected by sight, which bear upon germination. Among these are maturity when harvested, conditions of drying and storing and age—only a test will reveal the germinating qualities of seeds.

The financial loss caused by poor germination can hardly be calculated. It is evident, however, that a field of corn in which only 80 per cent of the seed germinated, other things being equal, could not give the same yield as if 100 per cent had germinated.

Fifth—Still one other factor needs consideration—that of disease—free seed. About six years ago the U. S. Department of Agriculture in cooperation with some experiment stations performed some experiments with rather startling results. Seed corn that gave 100 per cent germination but showed disease infection was matched

against seed that showed no infection. The disease-free seed produced from 10 to 30 per cent better yield than that produced by the infected seed.

State Seed Law Protects

Fortunately, Pennsylvania as well as nearly every other agriculture state has a seed law whose purpose is two-fold; first to insure a supply of good clean seeds free from weeds and waste material for farmers' use; second to protect the honest seedsmen and farmers against the practices of dishonest and careless seedsmen. This is accomplished by requiring that all seeds sold in certain quantities for seeding purposes shall bear a tag or label giving information as to the purity, germination and the nature and kind of impurities contained.

Farmers should buy from reliable seedsmen located within the Commonwealth of Pennsylvania. Those who buy from mail order houses or other retailers out-side the Commonwealth can secure no protection under the Pennsylvania law. The farmer should always examine the tag which bears the analysis of the seed and if the seedsman can not produce a statement of the analysis the farmer should refuse to buy. Quality and not price should be the main factor in purchasing seeds.

While protection is made possible by the seed law, it is obviously impossible for the Commonwealth to force the farmers or seedsmen to accept that protection. Adequate protection can result only from the closest cooperation of farmers and seed dealers with the Pennsylvania Department of Agriculture.

Bad Seed Should Be Reported

Whenever a purchaser of seed discovers that the quality has been misrepresented, this fact should be reported promptly to the Department at Harrisburg and immediate steps will be taken to determine the exact quality of the seed and whether or not it complies with the requirements of the Law.

MAIN PROVISIONS OF THE SEED LAW (Act 159)

Agricultural Seeds Defined

Section 1, defines the term "agricultural seeds" which includes practically every kind of seed sown or planted by farmers, gardeners and truckmen.

Noxious Weeds Named

In Section 2, the following nine weeds are named as noxious weeds:—wild onion or garlic, quack grass, dodder, Canada thistle, devil's paint brush, king devil, perennial sow thistle, horse nettle and bindweed. These nine weeds are considered noxious on account

of their perennial roots, or some habit of growth or propagation which renders them particularly injurious or very difficult to eradicate when once established. When these noxious weeds are found in certain amounts are specified in Section 4 of the law, their presence must be shown on the label.

Seeds Prohibited From Sale

Agricultural seeds or mixtures of the same that contain more than 3 per cent by weight of weed seeds, or that contain one or more seeds of dodder, or one of more seeds of Canada thistle in each five grams are considered unfit for seeding purposes, and, therefore, a menace to the public. Such seeds shall not be sold for seeding purposes.

Classes of Seeds

The law specifies three different classes of seeds. The first class includes all agricultural seeds, exclusive of vegetable seeds, which are sold as a single unmixed kind of seed.

The second class includes those mixtures that contain only two kinds of seeds, each in excess of 5 per cent, such for example, as a mixture of timothy and alsike clover.

The third class includes those special mixtures that contain more than two kinds of seeds, each in excess of 5 per cent, such as are often sold for pastures and lawns.

For convenience the first class may be called Unmixed, the second class Mixture, and the third class Special Mixture.

General Label Requirements

The label requirements of the three classes of seeds are somewhat different. They are, however, alike in this particular,—that all three classes must be tagged or labeled. The labeling may be done in any one of three following ways:—

1. The package delivered to the customer may have the tag attached.
2. The tag may be delivered to the customer along with the package.
3. The bin, bag or container from which the seed is taken may bear the label.

The label in any of the three methods must be in a conspicuous place, and must be plainly written or printed in the English language.

Label Requirements for Classes

The label requirements of seed sold as one single unmixed kind are given in Section 4. Every package or quantity of ten or more pounds must bear a label with.

(a) The Common Name of the Seed.
(b) The approximate percentage by weight of pure seed.

(c) The approximate total percentage by weight of weed seeds.
(d) The name and approximate number per ounce of each of the nine noxious weed seeds present must be given under certain conditions, as specified in Section 4.

Mixtures of only two kinds of seeds each in excess of 5 percent of the total mixture when sold in lots of ten pounds or more, must bear a tag or label giving essentially the same information as that required for the unmixed seed, with the following exceptions:—The tag must state that such seed is a mixture. It must also give the name and approximate percentage of the two kinds of seeds which are in excess of 5 per cent, and it must give the name and approximate number per ounce of the seeds and bulblets of the noxious weed seeds which are present in excess of one seed in fifteen grams of the mixture.

The special Mixtures when sold in lots of eight ounces or more must bear a tag or label giving the following information:

(a) That such seed is a mixture.
(b) The name of each kind of seed in excess of 5 per cent comprising the mixture. The percentage, however, need not be given.
(c) The approximate percentage of weed seeds.
(d) The approximate total percentage of inert matter.

Inert matter is composed of broken seeds, chaff, bits of sticks, leaves, stems, stones, etc. This class of mixtures frequently contains an exceedingly high percentage of inert matter, so that the purchaser receives a very small amount of good seed.

(e) Noxious weeds same as in Second Class.
(f) & (g) Same as in other classes.

Publication of Analyses

The Secretary of Agriculture is authorized to publish, or cause to be published, in bulletins or reports, any and all information obtained from tests or analyses made under the provisions of this act, which the Secretary of Agriculture may deem proper for publication in the interest of the public, including the names and addresses of any persons who have sold, offered for sale, or exposed for sale any agricultural seeds so tested or analyzed.

The penalty for violation of the Seed Law is a fine not to exceed $200.00.

EXPLANATION OF REPORT

The following tables give the result of the examination and analysis of the samples of farm seeds collected by seed inspectors during 1926. The analysis in most cases was not completed, but was carried only far enough to give assurance that the analysis given on the label was correct and within the "latitude of variation" given in the "rules

for seed testing." If samples were questionable, the analysis was completed, and if the analysis found differed from that given by any appreciable amount both were tabulated.

In a complete analysis information was often given on the label which is not required by the seed law. This, with other miscellaneous information, has been given in the column headed "remarks." While inert matter, other crop seeds and hard seeds are not required by law to be put on the tag of unmixed seed, it nevertheless is information which the purchaser should consider. A small percentage of inert matter, which is broken seeds, chaff, etc., may lower the quality of the seed very little, but the purchaser should remember that he is paying the same price per pound for it that he is for the good seed. Hard seeds are generally good seeds but sometimes they are so slow to germinate that they may not produce plants that will mature with the crop, and therefore may reduce the yield. Other crop seeds may not be very objectionable but here, as with the inert matter, the purchaser is paying the same price per pound for them that he is for the pure seed. Often these other crop seeds, if they grow, will reduce the quality of the crop, as, for instance, rye in wheat.

Fewer Samples Contain Bad Weed Seeds

In comparing this report with previous reports a marked improvement is noticed. In the report of 1924 nearly 8 per cent of the samples contained noxious weed seeds. In the report of 1925 this percentage had been reduced to about 3.5 per cent while the present reports show that only 2.5 per cent of the samples contain seeds of noxious weeds.

The amount of these weed seed found may not have been sufficient to make the sale of the seeds a violation of the law, but seeds with a mere trace of such weed seeds as Canada thistle, dodder and horsenettle should not be sown.

The following table shows the samples which contained the seeds of noxious weeds.

TABLE A—Samples which contained Noxious Weed Seeds.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3054 Alsike Clover	Emory V. Bupp, York, Pa. (R)	G.* 98.25	0.05	90.00	
	Blamberg Bros., Baltimore, Md. (W)	F.*			Two seeds of Canada thistle in 59 grams. Otherwise correct as labeled.
A3025 Alsike Clover	Nickle Plate Flour Mills, Erie, Pa. (R)	G. 97.00	1.00	90.00	1.00% inert matter 1.00% crop seeds
	Whitney-Eckstein Seed Co., Buffalo, N. Y. (W)	F.			Thirteen seeds of Canada thistle in 68¾ grams. Otherwise correct as labeled.
A3001 Alsike Clover	Farmers Coop. Assoc., Wysox, Pa. (R)	G. 99.25	0.50	88.00	0.50% inert matter. 2.75% crop seeds.
	G. L. F. Exchange, Syracuse, N. Y. (W)	F.			Two seeds of Canada thistle in 42½ grams. Otherwise correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2919 Alsike Clover	Barnett Bros., ----------(R) Jenners Cross Roads, Pa.	G.* 97.00	0.75	99.00	0.64% inert matter. 0.82% crop seeds.
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F.* 97.96	0.58	--------	One seed of Canada thistle in 70 grams.
A3033 Red Clover	Siegel Seed Store, ----------(R) Erie, Pa.	G. 95.53	0.83	97.50	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. -------	--------	--------	Two seeds of Canada thistle in 63 grams. Otherwise correct as labeled.
A2916 Sweet Clover	Barnett Bros., ----------(R) Jenners Cross Roads, Pa.	G. 99.10	0.46	97.00	0.30% inert matter. 0.24% crop seeds.
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. 99.00	0.46	--------	Twenty-one seeds of Canada thistle in 75 grams.
A2954 Red Clover	Schettig Hdw. Co., --------(R) Ebensburg, Pa.	G. 98.00	0.50	93.00	0.50% inert matter. 1.00% crop seeds.
	N. Wertheimer & Sons, --(W) Ligonier, Ind.	F. -------	--------	--------	Five Canada thistle seeds and one dodder seed in 74 grams. Otherwise correct as labeled.
A2942 Red Clover	Beeritz Sons, ----------(R) Somerset, Pa.	G. ------	--------	--------	Not labeled.
	A. Dickinson, ----------(W) Chicago, Ill.	F. -------	--------	--------	Two Canada thistle seeds in 40 grams.
A3179 Red Clover	Vincent A. Huber, --------(R) Patton, Pa.	G. 98.50	0.50	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. -------	--------	--------	Five seeds of Canada thistle in 689 grams. Otherwise correct as labeled.
A3079 Alsike Clover	Adams Co. Farm Bur., ---(R) Gettysburg, Pa.	G. 97.00	1.00	90.00	1.00% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F. -------	--------	--------	Thirty-one seeds of Canada thistle in 112 grams.
A3121 Alsike Clover	Hollywood Poultry Farm, -(R) Lewistown, Pa.	G. 98.00	0.60	90.00	
	Blamberg Bros., ----------(W) Baltimore, Md.	F. -------	--------	--------	Three Canada thistle seeds in 78 grams. Otherwise correct as labeled.
A3170 Alsike Clover	Hershey Dept. Store, ------(R) Hershey, Pa.	G. 97.28	0.40	86.00	0.50% inert matter. 1.82% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Four seeds of Canada thistle in 88 grams. Otherwise correct as labeled.
A3111 Sweet Clover	W. B. Angle, ----------(R) Chambersburg, Pa.	G. 99.44	0.08	95.75	
	Belt Seed Co., ----------(W) Baltimore, Md.	F. -------	--------	--------	Ninety-one seeds of Canada thistle in 931 grams. Otherwise correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

TABLE B

The following tabulated report gives information resulting from the seed analysis work during 1926:

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3314 Alfalfa	H. C. Jones, (R) Lebanon, Pa.	G.* 99.38	0.20	94.00	
	Albert Dickinson, (W) Chicago, Ill.	F.*			Correct as labeled.
A3108 Alfalfa	D. W. Faust & Sons, (R) Chambersburg, Pa.	G. 99.07	0.12	90.00	0.04% inert matter.
	N. Wertheimer & Sons, (W) Buffalo, N. Y.	F.			Correct as labeled.
A2868 Alfalfa	Owings Bros., (R) York, Pa.	G. 99.50	0.25	90.00	
	Wm. G. Searlett, (W) Baltimore, Md.	F.			Correct as labeled.
A2867 Alfalfa	E. V. Bupp, (R) York, Pa.	G. 99.90	0.05	90.00	
	W. A. Simpson, (W) Baltimore, Md.	F.			Correct as labeled.
A2905 Alfalfa	Wm. B. Barnitz, (R) Carlisle, Pa.	G. 99.65	0.25	95.00	
	Wm. G. Scarlett, (W) Baltimore, Md.	F			Correct as labeled.
A2906 Alfalfa	Wm. B. Barnitz, (R) Carlisle, Pa.	G. 99.50	0.28	93.00	0.08% crop seeds.
	Doughten Seed Co., (W) Philadelphia, Pa.	F.			Correct as labeled.
A2907 Alfalfa	J. B. Bixler & Son, (R) Carlisle, Pa.	G. 99.48	0.02	90.00	
	Albert Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A3261 Alfalfa	Stiebter Hdw. Co., (R) Reading, Pa.	G. 99.50	0.26	92.00	
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3264 Alfalfa	Major & Son, (R) Allentown, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eekstein, (W) Buffalo, N. Y.	F.			Correct as labeled.
A3266 Alfalfa	E. A. F. Kline, (R) Fleetwood, Pa.	G. 99.72	0.10	92.00	0.18% inert matter.
	Mays Seed Co., (W) Womelsdorf, Pa.	F.			Correct as labeled.
A3272 Alfalfa	R. O. Sendel, (R) Lehighton, Pa.	G. 99.60	0.40	92.00	
	Atlantic Seed Co., (W) Philadelphia, Pa.	F.			Correct as labeled.
A3280 Alfalfa	N. S. Schaffer & Co., (R) Fleetwood, Pa.	G. 99.74	0.08	95.00	0.14% inert matter. 0.04% crop. seeds.
	Mays Seed Co., (W) Womelsdorf, Pa.	F.			Correct as labeled.
A3279 Alfalfa	Stiehter Hdw. Co., (R) Reading, Pa.	G. 99.50	0.25	90.00	
	John J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3312 Alfalfa	Richard Scully, (R) Pomeroy, Pa.	G. 99.55	0.10	90.00	
	Atlantic Seed Co., (W) Philadelphia, Pa.	F.			Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3318 Alfalfa	S. W. Taylor, ----------(R) West Chester, Pa.	G.* ------	--------	--------	No tag.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F.* ------	--------	--------	
A3323 Alfalfa	Progress Mill, ----------(R) Progress, Pa.	G. 99.00	0.08	90.00	
	Paxton Flour & Feed Co., (W) Harrisburg, Pa.	F. ------	--------	--------	Correct as labeled.
A2953 Alfalfa	Schettig Hdw. Co., --------(R) Ebensburg, Pa.	G. 99.76	0.04	90.00	0.16% inert matter. 0.04% crop sseds.
	N. Wertheimer & Sons, ---(W) Ligonier, Ind.	F. ------	--------	--------	Correct as labeled.
A2957 Alfalfa	Schettig Hdw Co., --------(R) Ebensburg, Pa.	G. 98.42	0.30	85.00	0.20% inert matter. 1.14% crop seeds.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A2961 Alfalfa	E. M. Robinson, ----------(R) Holidaysburg, Pa.	G. 99.70	--------	95.00	
	Belt Seed Co., ----------(W) Baltimore, Pa.	F. ------	--------	--------	Correct as labeled.
A2967 Alfalfa	Omwake Bros., ----------(R) Greencastle, Pa.	G. 99.50	0.14	95.00	0.16% crop seeds.
	Doughten Seed Co., -------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3281 Alfalfa	F. M. Brown, ----------(R) Shillington, Pa.	G. 92.72	0.10	92.00	0.18% inert matter.
	Mays Seed Co., ----------(W) Womelsdorf, Pa.	F. ------	--------	--------	Correct as labeled.
A3282 Alfalfa	A. F. Boyer, ----------(R) Slatington, Pa.	G. 99.72	0.18	94.00	
	Atlantic Seed Co., --------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3284 Alfalfa	E. Z. Sheaffer, ----------(R) Ephrata, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3307 Alfalfa	John J. Cooper, ----------(R) Halifax, Pa.	G. 99.50	0.25	95.50	
	The Stanford Seed Co., ---(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3383 Alfalfa	Raymond & Homan, ------(R) Oak Hill, Pa.	G. 99.50	0.20	95.50	
	Stanford Seed Co., ---------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3384 Alfalfa	J. O. Reed Estate, --------(R) Philipsburg, Pa.	G. 99.10	0.10	--------	0.44% inert matter. 0.36% crop seeds.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3404 Alfalfa	Frank Eberly, ----------(R) Shiremanstown, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3224 Alfalfa	John H. Erdman, ----------(R) Allentown, Pa.	G. 99.50	not legible	91.00	0.16% crop seeds.
	Doughten Seed Co., --------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3223 Alfalfa	Kern & Moser, ----------(R) Neffs, Pa.	G. 99.45	0.28	95.00	0.24% inert matter. 0.03% crop seeds.
	E. J. Houck & Son, ------(W) Bangor, Pa.	F. ------	--------	--------	Correct as labeled.
A3221 Alfalfa	Lehighton Hdw. Co., -----(R) Lehighton, Pa.	G. 99.26	0.30	--------	0.44% inert matter.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3226 Alfalfa	N. S. Schmell, ----------(R) Kutztown, Pa.	G.* 99.24	1.50	75.00	2.18% crop seeds.
	Wm. G. Scarlett, ---------(R) Baltimore, Md.	F. -------	-------	-------	Correct as labeled.
A3235 Alfalfa	Syberts Mill, ----------(R) Nanty Glo, Pa.	G. 99.02	0.24	90.00	0.70% inert matter. 0.04% crop seeds.
	N. Wertheimer & Son, ----(W) Buffalo, N. Y.	F. -------	-------	-------	Correct as labeled.
A3240 Alfalfa	Chapels Seed Store, -------(R) Williamsport, Pa.	G. 99.36	0.10	92.00	
	Craver-Dickinson Seed Co., (W) Buffalo, N. Y.	F. -------	-------	-------	Correct as labeled.
A3245 Alfalfa	Andrews Hdw. Co., -------(R) Northumberland, Pa.	G. 99.00	0.40	96.00	
	Craver-Dickinson Co., -----(W) Buffalo, N. Y.	F. -------	-------	-------	Correct as labeled.
A3250 Alfalfa	C. S. Artley, ----------(R) Muncy, Pa.	G. 99.90	0.05	90.00	
	Stanford Seed Co., --------(W) Buffalo, N. Y.	F. -------	-------	-------	Correct as labeled.
A3260 Alfalfa	I. G. Sprecher's Sons, ------(R) Ephrata, Pa.	G. 99.62	0.10	96.00	0.18% inert matter. 0.10% crop seeds.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F. -------	-------	-------	Correct as labeled.
A3406 Alfalfa	Frank Eberly, ----------(R) Shiremanstown, Pa.	99.58	0.16	90.00	
	The Stanford Seed Co., --(W) Buffalo, N. Y.	F. -------	-------	-------	Correct as labeled.
A3407 Alfalfa	Frank Eberly, ---------- (R) Shiremanstown, Pa.	G. 99.14	0.32	95.00	0.54% inert matter.
	Doughten Seed Co., -------(W) Philadelphia, Pa.	F. -------	-------	-------	Correct as labeled.
A3178 Alfalfa	A. M. Brandt, ----------(R) Campbelltown, Pa.	G. 99.38	0.20	94.00	
	Albert Dickinson, ---------- Chicago, Ill.	F. -------	-------	-------	Correct as labeled.
A3177 Alfalfa	J. B. Curry's Sons, -------(R) Swatara, Pa.	G. 99.42	0.10	-------	0.28% inert matter.
	Philadelphia Seed Co., -----(W) Philadelphia, Pa.	F. -------	-------	-------	Correct as labeled.
A3186 Alfalfa	V. A. Huber, ----------(R) Patton, Pa.	G. 99.60	0.36	95.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. -------	-------	-------	Correct as labeled.
A3195 Alfalfa	A. W. Shuman & Son, ----(R) Bloomsburg, Pa.	G. 99.58	0.16	90.00	
	Stanford Seed Co., --------(W) Binghampton, N. Y.	F. -------	-------	-------	Correct as labeled.
A3209 Alfalfa	Berwick Store Co., --------(R) Berwick, Pa.	G. 99.70	0.25	95.00	
	Belt Seed Co. Baltimore, Md.	F. -------	-------	-------	Correct as labeled.
A3218 Alfalfa	W. H. Wehr., ----------(R) Allentown, Pa. R No. 3.	G. 99.56	not legible	91.00	0.10% crop seeds.
	Doughten Seed Co., --------(W) Philadelphia, Pa.	F. -------	-------	-------	Correct as labeled.
A3324 Alfalfa	Reedsville Milling Co., -----(R) Reedsville, Pa.	G. -------	-------	-------	No tag.
		F. -------	-------	-------	
A3347 Alfalfa	E. S. Thompson, ---------(R) Thompsontown, Pa.	G. 99.50	0.25	95.50	
	The Stanford Seed Co., --(W) Pittsburgh, Pa.	F. -------	-------	-------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower		Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3348 Alfalfa	R. W. G. Raker, (R) Elizabethville, Pa.	G.*	99.56	0.14	95.00	0.14% crop seeds.
	Doughten Seed Co., (W) Jersey City, N. J.	F.*	------	------	------	Correct as labeled.
A3352 Alfalfa	Geo. S. Bleistern Sr., (R) Myerstown, Pa.	G.	99.60	------	90.00	
	Atlantic Seed Co., (W) Philadelphia, Pa.	F.	------	------	------	Correct as labeled.
A3363 Alfalfa	Robert W. Wertz, (R) Wernersville, Pa.	G.	99.75	0.14	95.00	
	The Atlantic Seed Co., (W) Philadelphia, Pa.	F.	------	------	------	Correct as labeled.
A3365 Alfalfa	Coburn Grain & Creamery Co., Coburn, Pa. (R)	G.	99.50	0.38	96.00	
	Stanford Seed Co., (W) Buffalo, N. Y.	F.	------	------	------	Correct as labeled.
A3367 Alfalfa	Mays Seed Co., (R) Womelsdorf, Pa.	G.	99.58	0.10	Not made as yet	0.10% inert matter. 0.22% crop seeds.
	Philadelphia Seed Co., (W) Philadelphia, Pa.	F.	------	------	------	Correct as labeled.
A2920 Alfalfa	Barnett Bros., (R) Jenners Cross Rds., Pa.	G.	99.50	0.25	95.50	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.	99.24	0.07	------	0.14% inert matter. 0.55% crop seeds.
A2928 Alfalfa	C. A. Phillips, (R) Meyersdale, Pa.	G.	99.12	0.16	92.00	
	Albert Dickinson, (W) Pittsburgh, Pa.	F.	------	------	------	Correct as labeled.
A2929 Alfalfa	Somerset Milling Co., (R) Somerset, Pa.	G.	99.32	0.58	96.50	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.	------	------	------	Correct as labeled.
A2936 Alfalfa	A. S. Groff, (R) Lancaster, Pa.	G.	99.90	0.05	94.00	
	Atlantic Seed Co., (W) Philadelphia, Pa.	F.	------	------	------	Correct as labeled.
A2945 Alfalfa	Penrose Wolf Co., (R) Rockwood, Pa.	G.	99.32	0.58	90.00	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.	------	------	------	Correct as labeled.
A2976 Alfalfa	Mercersburg Grain Co., (R) Mercersburg, Pa.	G.	99.50	0.12	92.00	
	John J. Buffington, (W) Baltimore, Md.	F.	------	------	------	Correct as labeled.
A2979 Alfalfa	E. C. Noll, (R) Lewisburg, Pa.	G.	99.68	0.06	84.00	0.20% inert matter. 0.06% crop seeds.
	Phila. Seed Co., (W) Philadelphia, Pa.	F.	------	------	------	Correct as labeled.
A3000 Alfalfa	Farmers Coop. Asso., (R) Wysox, Pa.	G.	99.35	0.30	90.00	0.20% inert matter. 0.30% crop seeds.
	G. L. F. Exchange, (W) Syracuse, N. Y.	F.	------	------	------	Correct as labeled.
A2999 Alfalfa	Farmers Coop. Asso., (R) Wysox, Pa.	G.	99.25	0.30	90.00	0.20% inert matter. 0.30% crop seeds.
	G. L. F. Exchange, (W) Syracuse, N. Y.	F.	------	------	------	Correct as labeled.
A3005 Alfalfa	A. C. Bullard, (R) Towanda, Pa.	G.	99.30	0.25	97.00	
	E. W. Conklin & Co., (W) Binghamton, N. Y.	F.	------	------	------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3004 Alfalfa	D. L. Bogenreif, ----------(R) Mifflinburg, Pa.	G.* 99.55	0.04	98.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F.* ------	--------	--------	Correct as labeled.
A3013 Alfalfa	Mifflinburg Farmers Exch., (R) Mifflinburg, Pa.	G. 99.50	0.16	95.50	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2939 Alfalfa	Swope Bros., ----------(R) Johnstown, Pa.	G. 99.02	0.30	95.00	
	A. Dickinson, ----------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2872 Alfalfa	York Bldg. & Supply Co., (R) York, Pa.	G. 99.50	0.25	90.00	
	W. A. Simpson & Co., ---(W) Baltimore, Pa.	F. ------	--------	--------	Correct as labeled.
A2871 Alfalfa	Chas. Neweomer, ----------(R) York, Pa.	G. 99.50	0.25	85.00	
	W. A. Simpson & Co., --(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2870 Alfalfa	Anderson Grain & Feed Co. (R) York, Pa.	G. 99.90	0.05	90.00	
	W. A. Simpson & Co., ----(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2869 Alfalfa	D. E. Horne, ----------(R) York, Pa.	G. 99.60	0.25	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3045 Alfalfa	D. E. Horne & Co., ------(R) York, Pa.	G. 99.82	0.10	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3047 Alfalfa	Owings Bros., ----------(R) York, Pa.	G. 99.82	0.10	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3049 Alfalfa	Clayton Strickhouser, -----(R) York, Pa.	G. 99.82	0.10	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3051 Alfalfa	Emory V. Bupp, ---------(R) York, Pa.	G. 99.50	--------	--------	
	John J. Buffington, --------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3066 Alfalfa	Jacob Swartz, ----------(R) York, Pa.	G. 99.50	0.19	97.50	
		F. ------	--------	--------	Correct as labeled.
A3072 Alfalfa	Cochran and Allen, --------(R) Carlisle, Pa.	G. 99.80	0.10	90.00	
	Blamberg Bros., ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3024 Alfalfa	Gleun Tingley, ----------(R) New Milford, Pa.	G. 99.50	0.08	90.00	
	Stanford Seed Co., --------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3031 Alfalfa	Siegel Seed Store, ---------(R) Erie, Pa.	G. 99.68	0.14	95.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3037 Alfalfa	Harrisburg Seed Co., -----(R) Harrisburg, Pa.	G.* 99.82	0.10	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F.* ------	--------	--------	Correct as labeled.
A3107 Alfalfa	Walker Bros., ----------(R) Chambersburg, Pa.	G. 99.00	--------	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3102 Alfalfa	D. W. Faust & Sons, ----(R) Chambersburg, Pa.	G. 99.90	0.05	90.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. -------	--------	--------	Correct as labeled.
A3101 Alfalfa	Lake View Milling Co., ---(R) Chambersburg, Pa.	G. ------	--------	--------	No t. g.
		F. -------	--------	--------	
A3090 Alfalfa	Walker Bros., ----------(R) Chambersburg, Pa.	G. 99.75	0.10	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3143 Alfalfa	Hollywood Poultry Farm, (R) Lewistown, Pa.	G. 99.08	0.10	90.00	
	Blamberg Bros. Inc., -----(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3125 Alfalfa	Jas. A. Goss, ----------(R) Lewistown, Pa.	G. 99.55	0.05	95.00	
	Doughten Seed Co., ------(W) Jersey City, N. J.	F. -------	--------	--------	Correct as labeled.
A3158 Alfalfa	S. J. Wolf Hdw. Co., ---(R) Altoona, Pa.	G. 99.50	0.15	90.00	0.25% inert matter. 0.10% crop seeds.
	Whitney-Eckstein, ----------(W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3159 Alfalfa	Newgard Tice, ----------(R) Annville, Pa.	G. ------	--------	--------	No tag.
	Mays Seed Co., ----------(W) Womelsdorf, Pa.	F. -------	--------	--------	
A3088 Alfalfa	Stanley O. Fickes, ---------(R) Newport, Pa.	G. 99.50	0.19	95.00	0.09% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3078 Alfalfa	Dillsburg Grain & Milling Co., ----------(R) Dillsburgh, Pa.	G. 99.65	0.27	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3077 Alfalfa	Adams Co. Farm Bureau, (R) Gettysburg, Pa.	G. 99.50	0.20	90.00	0.20% inert matter. 0.20% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3199 Alfalfa	Lake View Milling Co., ---(R) Chambersburg, Pa.	G. 99.00	0.20	90.00	
	Craver-Dickinson Seed Co., (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3118 Alfalfa	Chambersburg Grain Co., -(R) Chambersburg, Pa.	G. 99.50	0.25	90.00	
	John J. Buffington, ------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3116 Alfalfa	W. B. Angle, ----------(R) Chambersburg, Pa.	G. 99.50	0.25	90.00	
	J. J. Buffington, ---------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3020 Alsike Clover	Bennett and MacVoy, -----(R) Mill City, Pa.	G. 98.00	0.50	95.00	0.25% white clover.
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3022 Alsike Clover	A. C. Bullard, ----------(R) Towanda, Pa.	G.* 91.95	0.40	93.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F.* ------	--------	--------	Correct as labeled.
A3025 Alsike Clover	Nickle Plate Flour Mills, --(R) Erie, Pa.	G. 97.00	1.00	90.00	1.00% inert matter. 1.00% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3027 Alsike Clover	Siegel Seed Store, ---------(R) Erie, Pa.	G. 97.00	not given	85.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3034 Alsike Clover	Nickle Plate Flour Mills, --(R) Erie, Pa.	G. 98.30	0.20	93.00	0.10% inert matter. 1.40% crop seeds.
	N. Wertheimer & Son, ----(W) Ligonier, Ind.	F. 96.87	0.55	--------	0.54% inert matter. 2.04% crop seeds.
A2988 Alsike Clover	Bridgewater Mills, ---------(R) Montrose, Pa.	G. 95.90	1.00	90.00	
	Stanford Seed Co., -------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A2989 Alsike Clover	W. S. Crock, ----------(R) Nicholson, Pa.	G. 96.50	0.56	90.00	
	Stanford Seed Co., --------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A2990 Alsike Clover	D. L. Bogenrief, ---------(R) Mifflinburg, Pa.	G. 97.00	0.80	100.00	1.85% crop seeds.
	Doughten Seed Co., -------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3001 Alsike Clover	Farmers Coop. Asso., ----(R) Wysox, Pa.	G. 99.25	0.50	88.00	0.50% inert matter. 2.75% crop seeds.
	G. L. F. Exchange, ------(W) Syracuse, N. Y.	F. ------	--------	--------	Correct as labeled.
A3007 Alsike Clover	J. K. Slawson, ----------(R) Tunkhannock, Pa.	G. 97.50	0.45	90.00	
	E. W. Conklin & Son, ----(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3012 Alsike Clover	Mifflinburg Farmers Exch., (R) Mifflinburg, Pa.	G. 98.65	0.85	90.00	
	Stanford Seed Company, -(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2873 Alsike Clover	E. V. Bupp, ----------(R) York, Pa.	G. 96.75	0.85	90.00	
	Blamberg Bros., ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2874 Alsike Clover	Hespenheide & Thompson, (R) York, Pa.	G. 98.40	0.35	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2876 Alsike Clover	York Bldg. & Supply Co. (R) York, Pa.	G. 98.15	0.15	90.00	
	W. A. Simpson, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2884 Alsike Clover	Anderson Grain & Feed Co. (R) York, Pa.	G. 97.48	0.76	90.00	
	W. A. Simpson & Co., ----(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2908 Alsike Clover	Wm. B. Barnitz, ---------(R) Carlisle, Pa.	G. 98.00	1.00	90.00	0.25% white clover.
	Wm. B. Scarlett, ---------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2909 Alsike Clover	J. B. Bixler, (R) Carlisle, Pa.	G.* 98.05	0.35	93.00	
	A. Dickinson, (W) Chicago, Ill.	F.*			Correct as labeled.
A2819 Alsike Clover	Barnett Bros., (R) Jenners Cross Roads, Pa.	G. 97.00	1.00	91.75	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F. 95.69	1.11		0.50% inert matter. 2.70% crop seeds.
A2919 Alsike Clover	Barnett Bros., (R) Jenners Cross Roads, Pa.	G. 97.00	0.75	99.00	
	Stanford Seed Company, (W) Pittsburgh, Pa.	F. 97.96	0.58		0.64% inert matter. 0.82% crop seeds.
A3053 Alsike Clover	Jacob Swartz, (R) York, Pa.	G. 97.50	0.45	90.00	
	W. A. Simpson, (W) Baltimore, Md.	F.			Correct as labeled.
A3054 Alsike Clover	Emory V. Bupp, (R) York, Pa.	G. 98.25	0.05	90.00	
	Blamberg Bros., (W) Baltimore, Md.	F.			Correct as labeled.
A3194 Alsike Clover	C. J. Cordell, (R) Patton, Pa.	G. 97.00	0.60	93.00	
	Craver-Dickinson Seed Co. (W) Buffalo, N. Y.	F.			Correct as labeled.
A3269 Alsike Clover	Stichter Hdw. Co., (R) Reading, Pa.	G. 97.10	0.45	90.00	2.35% crop seeds.
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3217 Alsike Clover	Stemler Hdw. Co., (R) Palmerton, Pa.	G. 97.97	0.24	98.50	0.70% crop seeds. 0.22% noxious weeds.
	E. J. Houck, (W) Bangor, Pa.	F.			No noxious weeds.
A3216 Alsike Clover	B. W. Shipe, (R) Palmerton, Pa.	G. 98.50	0.24	98.50	0.70% crop seeds. 0.22% noxious weeds.
	E. J. Houck, (W) Bangor, Pa.	F.			No noxious weeds.
A3225 Alsike Clover	Castenbader Bros., (R) Palmerton, Pa.	G. 98.13	0.05	97.50	
	E. J. Houck & Son, (W) Bangor, Pa.	F.			Correct as labeled.
A3233 Alsike Clover	Fry Milling Co., (R) Cresson, Pa.	G. 97.00	1.40	93.00	
	Albert Dickinson Co., (W) Chicago, Ill.	F.			Correct as labeled.
A3232 Alsike Clover	Fry Milling Co., (R) Cresson, Pa.	G.			No tag.
	Hindman & Neiger Co., (W) Steubenville, Ohio.	F.			
A3234 Alsike Clover	Syberts Mill, (R) Nanty-Glo, Pa.	G. 93.10	0.25	93.00	1.00% inert matter. 4.85% crop seeds.
	N. Wertheimer & Sons, (W) Buffalo, N. Y.	F.			Correct as labeled.
A3259 Alsike Clover	F. M. Brown, (R) Shillington, Pa.	G. 99.35	0.35	91.75	Pure seed includes 1.59% other crop seeds.
	Mays Seed Co., (W) Womelsdorf, Pa.	F. 89.71	0.74		0.49% inert matter. 9.06% crop seeds.
A2921 Alsike Clover	Swope Bros., (R) Johnstown, Pa.	G. 98.10	0.35	95.00	
	A. Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2932 Alsike Clover	W. W. Cupp, (R) Somerset, Pa.	G.* 99.05	0.10	94.00	
	A. Dickinson, (W) Chicago, Ill.	F.*			Correct as labeled.
A2933 Alsike Clover	Somerset Milling Co., (R) Somerset, Pa.	G. 97.70	0.15	98.50	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A2934 Alsike Clover	A. S. Groff, (R) Lancaster, Pa.	G. 98.25	0.25	95.00	
	Atlantic Seed Co., (W) Philadelphia, Pa.	F.			Correct as labeled.
A2958 Alsike Clover	Schettig Hdw. Co., (R) Ebensburg, Pa.	G. 93.90	0.25	93.00	1.00% inert matter. 4.85% crop seeds.
	N. Wertheimer & Son, (W) Ligonier, Ind.	F.			Correct as labeled.
A2960 Alsike Clover	E. M. Robinson, (R) Hollidaysburg, Pa.	G. 97.00	0.50	92.00	
	Belt Seed Co., (W) Baltimore, Md.	F.			Correct as labeled.
A2964 Alsike Clover	C. A. Phillips, (R) Meyersdale, Pa.	G. 99.05	0.10	94.00	
	A. Dickinson, (W) Pittsburgh, Pa.	F.			Correct as labeled.
A3291 Alsike Clover	B. N. Palmer & Co., (R) Portage, Pa.	G.			No tag.
		F.			
A3299 Alsike Clover	A. E. Crissiman, (R) South Fork, Pa.	G. 97.70	0.15	91.00	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A3392 Alsike Clover	J. O. Reed Estate, (R) Philipsburg, Pa.	G. 96.12	0.00	91.00	0.00% inert matter. 2.68% crop seeds.
	Phila. Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3295 Alsike Clover	Louis Sherers Mill, (R) Summerhill, Pa.	G.			No tag.
		F.			
A3277 Alsike Clover	R. O. Sendel, (R) Lehighton, Pa.	G. 97.00	1.00	90.00	1.00% inert matter. 1.00% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F.			Correct as labeled.
A3309 Alsike Clover	Great Valley Mills, (R) Paoli, Pa.	G.			No tag.
	Doughten Seed Co., (W) Phila., Pa.	F.			
A3330 Alsike Clover	P. W. G. Raker, (R) Elizabethville, Pa.	G. 95.15	0.50	93.00	2.35% crop seeds.
	Doughten Seed Co., (W) Jersey City, N. J.	F.			Correct as labeled.
A3336 Alsike Clover	B. S. Stauffer & Co., (R) Lawn, Pa.	G.			No tag.
		F.			
A3359 Alsike Clover	Geo. A. Schaffner, (R) Hummelstown, Pa.	G. 99.35	0.35		1.59% crop seeds.
	May Seed Co., (W) Wiser Park, Pa.	F.			
A3358 Alsike Clover	Raymond & Homan, (R) Oak Hall, Pa.	G. 98.72	0.58	92.00	
	Stanford Seed Co., (W) Buffalo, N. Y.	F.			Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3356 Alsike Clover	J. B. Secrist, ----------(R) Millerstown, Pa.	G.* 97.00	0.50	90.00	1.00% inert matter. 1.50% crop seeds.
	Whitney-Eckstein Co., ----(W) Buffalo, N. Y.	F.* ------	--------	--------	Correct as labeled.
A3374 Alsike Clover	I. J. Rohrbaugh, ----------(R) Beech Creek, Pa.	G. 97.50	0.50	92.00	
	The Belt Seed Co., --------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3167 Alsike Clover	J. M. Burkholder, --------(R) Hummelstown, Pa.	G. 98.00	0.44	90.00	1.31% crop seeds.
	Atlantic Seed Co., --------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3169 Alsike Clover	J. B. Curry's Sons, ------(R) Palmyra, Pa.	G. 97.50	0.34	98.00	
	Atlantic Seed Co., --------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3170 Alsike Clover	Hershey Dept. Store, ------(R) Hershey, Pa.	G. 97.28	0.40	86.00	0.50% inert matter. 1.82% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3079 Alsike Clover	Adams Co. Farm. Bur., -(R) Gettysburg, Pa.	G. 97.00	1.00	90.00	1.00% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. 95.54	2.39	--------	0.38% inert matter. 1.69% crop seeds.
A3110 Alsike Clover	Lake View Milling Co., ---(R) Chambersburg, Pa.	G. 97.10	0.45	90.00	2.35% crop seeds.
	J. J. Buffington & Co., -(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3091 Alsike Clover	Walker Bros., ----------(R) Chambersburg, Pa.	G. 97.05	0.30	94.00	
	W. A. Simpson Co., ------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3141 Alsike Clover	Lebanon Hdw. Co., -------(R) Lebanon, Pa.	G. ------	--------	--------	No tag.
A3135 Alsike Clover	Ulsh-Shinkel Hdw. Co., ---(R) Lewistown, Pa.	G. ------	--------	--------	No tag.
		F. -------	--------	--------	
A3121 Alsike Clover	Hollywood Poultry Farm, (R) Lewistown, Pa.	G. 98.00	0.60	90.00	
	Blamberg Bros., ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3149 Alsike Clover	H. C. Jones & Son, ------(R) Lebanon, Pa.	G. 96.12	0.60	--------	0.60% inert matter. 2.68% crop seeds.
		F. -------	--------	--------	Correct as labeled.
A3164 Alsike Clover	J. M. Burkholder, ---------(R) Hummelstown, Pa.	G. 98.45	0.10	94.00	
	Belt Seed Co., ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3196 Alsike Clover	Chapels Seed Store, -------(R) Williamsport, Pa.	G. 92.00	--------	94.00	
	Craver-Dickinson Seed Co., (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3306 Alsike Clover	John J. Cooper, ----------(R) Halifax, Pa.	G. 95.15	--------	100.00	
	Doughten Seed Co., -------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A2889 Crimson Clover	Hespenheide & Thompson, (R) York, Pa.	G. 98.00	0.50	85.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2801 Crimson Clover	D. E. Horne, ----------(R) York, Pa.	G.* 98.00	0.65	82.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F.* ------	--------	--------	Correct as labeled.
A3310 Crimson Clover	Great Valley Mills, ---------(R) Paoli, Pa.	G. ------	--------	--------	No tag.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	
A3275 Crimson Clover	Stichter Hdw. Co., --------(R) Reading, Pa.	G. 98.00	0.90	75.00	
	J. J. Buffington, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2930 Kentucky Blue-grass	C. A. Phillips, ----------(R) Meyersdale, Pa.	G. 82.20	1.30	80.00	
	A. Dickinson, ----------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2894 Kentucky Blue-grass	Anderson Grain & Feed, --(R) York, Pa.	G. 70.50	0.90	65.00	
	W. A. Simpson, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2975 Kentucky Blue-grass	J. M. Phillips Sons, ------(R) Mercersburg, Pa.	G. 75.84	1.00	68.00	
	National Seed Co., -------(W) Louisville, Ky.	F. ------	--------	--------	Correct as labeled.
A2971 Kentucky Blue-grass	J. M. Phillips Sons, -------(R) Mercersburg, Pa.	G. 81.34	1.00	75.00	
	National Seed Co., -------(W) Louisville, Ky.	F. ------	--------	--------	Correct as labeled.
A3058 Kentucky Blue-grass	White Rose Seed & Nur. Co. (R) York, Pa.	G. 81.00	0.75	75.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3055 Kentucky Blue-grass	C. R. Thompson, ----------(R) Gettysburg, Pa.	G. 65.00	1.00	60.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3042 Kentucky Blue-grass	D. E. Horne, ----------(R) York, Pa.	G. 80.00	1.00	75.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3311 Kentucky Blue-grass	Great Valley Seed Co., ---(R) Paoli, Pa.	G. 82.00	0.50	66.00	
	Atlantic Seed Co., ---------(R) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3203 Kentucky Blue-grass	H. B. Sharpless, ----------(R) Bloomsburg, Pa.	G. 76.00	1.00	80.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3095 Lawn Seed	W. B. Angle, ----------(R) Chambersburg, Pa.	G. ------	--------	--------	No tag.
	Atlantic Seed Co., --------(W) Phila., Pa.	F. ------	--------	--------	
A3100 Lawn Seed	Zug Hdw. Co., ----------(R) Chambersburg, Pa.	G. 86.26	--------	81.50	
	Brown Seed Store, ----------(W) Grand Rapids, Mich.	F. ------	--------	--------	
A3130 Lawn Seed	F. E. Bowersox Hdw. Co. (R) Lewistown, Pa.	G. ------	--------	--------	No tag.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	--------	--------	
A3123 Lawn Seed	Mifflin Co. Hdw. Co., ----(R) Lewistown, Pa.	G. 90.00	3.00	90.00	
	D. Landreth Seed Co., ----(W) Bristol, Pa.	F. ------	--------	--------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2972 Millet	J. M. Phillips Sons, ------(R) Mercersburg, Pa.	G.* 98.00	0.50	90.00	
	Belt Seed Company, ------(W) Baltimore, Md.	F.* ------	------	------	Correct as labeled.
A2982 Millet	Hair Bros., ----------(R) New Bloomfield, Pa.	G. 99.00	0.10	95.00	
	W. A. Simpson Co., -----(W) Baltimore, Md.	F. ------	------	------	Correct as labeled.
A2986 Millet	D. L. Bogenrief, ----------(R) Mifflinburg, Pa.	G. 98.50	0.50	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	------	------	Correct as labeled.
A3019 Millet	Dayton Milling Co., ------(R) Towanda, Pa.	G. 98.00	0.50	92.00	
	Craver-Dickinson Co., ----(W) Buffalo, N. Y.	F. ------	------	------	Correct as labeled.
A3030 Millet	Siegel Seed Store, ----------(R) Erie, Pa.	G. 99.25	0.05	83.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. ------	------	------	Correct as labeled.
A3028 Millet	Siegel Seed Store, ----------(R) Erie, Pa.	G. 99.19	0.15	86.00	0.06% crop seeds.
	J. C. McCullough Seed Co. (W) Cincinnati, Ohio.	F. ------	------	------	Correct as labeled.
A3026 Millet	Theilman Seed Co., -------(R) Erie, Pa.	G. 98.00	0.50	92.00	
	Craver-Dickinson Co., ----(W) Buffalo, N. Y.	F. ------	------	------	Correct as labeled.
A3043 Millet	D. E. Horne, ----------(R) York, Pa.	G. 99.00	0.50	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	------	------	Correct as labeled.
A3313 Millet	T. M. Griffith & Son, ------(R) Downingtown, Pa.	G. 99.15	0.40	------	0.45% inert matter.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	------	------	Correct as labeled.
A3258 Millet	J. S. Artley, ----------(R) Muncy, Pa.	G. 99.32	0.20	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	------	------	Correct as labeled.
A3238 Millet	A. F. Stutzman, ----------(R) Johnstown, Pa.	G. 99.00	0.25	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	------	------	Correct as labeled.
A3208 Millet	R. A. Sendel, ----------(R) Lehighton, Pa.	G. 99.50	0.15	90.00	0.25% inert matter. 0.10% crop seeds.
	Whitney-Eckstein, ----------(W) Buffalo, N. Y.	F. ------	------	------	Correct as labeled.
A3197 Millet	Lehighton Hdw. Co., -----(W) Lehighton, Pa.	G. 99.15	0.40	92.00	0.45% inert matter.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	------	------	Correct as labeled.
A3396 Millet	Emporium Milling Co., ---(R) Emporium, Pa.	G. 99.00	0.30	90.00	0.50% inert matter. 0.20% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	------	------	Correct as labeled.
A3286 Millet	A. W. Masser, ----------(R) Reading, Pa.	G. 99.15	0.40	92.00	0.45% inert matter.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	------	------	Correct as labeled.
A3379 Millet	J. O. Reed Estate, -------(R) Philipsburg, Pa.	G. ------	------	------	No analysis given.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	------	------	

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2925 Red Clover	C. A. Phillips, ----------(R) Meyersdale, Pa.	G.* 98.70	0.60	93.00	0.32% alfalfa.
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F.* ------	-------	-------	Correct as labeled.
A2935 Red Clover	A. S. Groff, ----------(R) Lancaster, Pa.	G. 99.50	0.25	94.00	
	Atlantic Seed Co., --------(W) Philadelphia, Pa.	F. ------	-------	-------	Correct as labeled.
A2937 Red Clover	Swank Hdw. Co., ---------(R) Johnstown, Pa.	G. 98.00	0.50	90.00	1.00% inert matter.
	Whitney-Eckstein, ---------(W) Buffalo, N. Y.	F. ------	-------	-------	Correct as labeled.
A2938 Red Clover	Somerset Milling Co., -----(R) Somerset, Pa.	G. 99.00	0.37	92.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	-------	-------	Correct as labeled.
A2942 Red Clover	Beeritz Sons, ----------(R) Somerset, Pa.	G. ------	-------	-------	Not labeled.
	A. Dickinson, ----------(W) Chicago, Ill.	F. ------	-------	-------	Quality below average.
A2944 Red Clover	Penrose Wolf Co., ---------(R) Rockwood, Pa.	G. 99.00	0.38	99.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. ------	-------	-------	Correct as labeled.
A2946 Red Clover	Penrose Wolf Co., --------(R) Rockwood, Pa.	G. 99.00	0.37	92.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. ------	-------	-------	Correct as labeled.
A2954 Red Clover	Schettig Hdw. Co., -------(R) Ebensburg, Pa.	G. 98.00	0.50	93.00	0.50% inert matter. 1.00% crop seeds.
	N. Wertheimer & Sons, --(W) Ligonier, Ind.	F. ------	-------	-------	Correct as labeled.
A2985 Red Clover	H. G. Lake, ----------(R) Montrose, Pa.	G. 98.50	0.87	90.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	-------	-------	Correct as labeled.
A2994 Red Clover	Bennett & MacVoy, -------(R) Mill City, Pa.	G. 99.00	0.80	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	-------	-------	Correct as labeled.
A2998 Red Clover	W. S. Crock, ----------(R) Nicholson, Pa.	G. 98.25	0.50	93.00	0.50% crop seeds.
	Doughten Seed Co., ------(W) Philadelphia, Pa.	F. ------	-------	-------	Correct as labeled.
A3008 Red Clover	J. K. Slawson, ----------(R) Tunkhannock, Pa.	G. 99.00	0.20	93.00	
	E. W. Conklin & Son, ----(W) Binghamton, N. Y.	F. ------	-------	-------	Correct as labeled.
A3010 Red Clover	D. Luther Bogenrief, ------(R) Mifflinburg, Pa.	G. 99.00	0.50	92.00	0.25% alfalfa.
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	-------	-------	Correct as labeled.
A3014 Red Clover	S. E. Rumpf, ----------(R) New Milford, Pa.	G. 99.00	0.46	94.00	
	E. W. Conklin and Son, -(W) Binghamton, N. Y.	F. ------	-------	-------	Correct as labeled.
A3016 Red Clover	Dayton Milling Co., ------(R) Towanda, Pa.	G. 99.04	0.22	93.00	
	Craver Dickinson Co., ----(W) Buffalo, N. Y.	F. ------	-------	-------	Correct as labeled.
A2885 Red Clover	Chas. Newcomer, ----------(R) York, Pa.	G. 99.00	0.40	90.00	0.20% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	-------	-------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2883 Red Clover	Hespenheide & Thompson, (R) York, Pa.	G.* 99.00	0.60	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Pa.	F.* ------	--------	--------	Correct as labeled.
A3057 Red Clover	Owings Bros., ----------(R) York, Pa.	G. 98.00	0.50	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3062 Red Clover	Anderson Grain & Feed Co. (R) York, Pa.	G. 99.35	0.28	90.00	0.14% crop seeds.
	John J. Buffington, -------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3067 Red Clover	C. M. Wolf, ----------(R) Gettysburg, Pa.	G. 99.10	0.50	94.00	0.20% crop seeds.
	Doughten Seed Co., --------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3070 Red Clover	Emory V. Bupp, ----------(R) York, Pa.	G. 98.60	0.50	86.00	
	W. A. Simpson, ----------(W) Baltimore, Md.	F. ------	--------	--------	Poor quality. Correct as labeled.
A3021 Red Clover	Glen Tingley, ----------(R) New Milford, Pa.	G. 99.14	0.44	94.00	
	Craver-Dickinson, ----------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3033 Red Clover	Siegel Seed Store, ----------(R) Erie, Pa.	G. 99.53	0.83	97.50	
	Stanford Seed Co., ---------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3040 Red Clover	C. M. Wolf, ----------(R) Gettysburg, Pa.	G. ------	--------	--------	
		F. 98.43	0.64	87.00	0.60% inert matter. 0.33% crop seeds.
A2977 Red Clover	Mercersburg Grain Supply Co., ----------(R) Mercersburg, Pa.	G. 99.00	0.40	90.00	
	John J. Buffington, ------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2983 Red Clover	Hair Bros., ----------(R) New Bloomfield.	G. 99.35	0.43	91.00	
	W. A. Simpson Co., ------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2875 Red Clover	Anderson Grain & Feed Co.,(R) York, Pa.	G. 99.00	0.40	86.00	
	W. A. Simpson & Co., ----(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2886 Red Clover	York Farm & Bldg. Supply Co., ----------(R) York, Pa.	G. 99.25	0.20	90.00	
	W. A. Simpson, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2902 Red Clover	Wm. B. Barnitz, ----------(R) Carlisle, Pa.	G. 99.25	0.25	92.00	0.25% crop seeds.
	Doughten Seed Co., -------(W) Philadelphia, Pa.	F. 98.93	0.11	--------	0.50% inert matter. 0.56% crop seeds.
A2903 Red Clover	Wm. B. Barnitz, ----------(R) Carlisle, Pa.	G. 99.50	0.10	96.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2904 Red Clover	J. B. Bixler & Sons, ------(R) Carlisle, Pa.	G. 99.40	0.34	94.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A2917 Red Clover	Barnett Bros., ----------(R) Jenners Cross Roads, Pa.	G. 99.00	0.34	92.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. 98.53	0.13	--------	0.63% inert matter. 0.71% crop seeds.

G*—Information given by seedsman. F*—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2922 Red Clover	Swope Bros., (R) Johnstown, Pa.	G.* 99.08	0.08	94.00	
	A. Dickinson, (W) Chicago, Ill.	F.*			Correct as labeled.
A2923 Red Clover	H. C. Beeritz Sons, (R) Somerset, Pa.	G. 99.35	0.10	94.00	
	A. Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A2924 Red Clover	John C. Emert, (R) Somerset, Pa.	G. 99.25	0.08	91.00	
	Churchill Grain & Seed Co., (W) Toledo, Ohio.	F.			Correct as labeled.
A3106 Red Clover	Lake View Milling Co., (R) Chambersburg, Pa.	G. 99.00	0.38	90.00	0.22% crop seeds.
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3136 Red Clover	Lewistown Feed & Supply (R) Lewistown, Pa.	G. 99.00	0.16		
	Albert Dickinson Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A3127 Red Clover	Hollywood Poultry Farm, (R) Lewistown, Pa.	G. 99.25	0.45	92.00	
	Blamberg Bros. Inc., (W) Baltimore, Md.	F. 98.56	1.17		0.48% inert matter. 0.09% crop seeds.
A3179 Red Clover	Vincent A. Huber, (R) Patton, Pa.	G. 98.50	0.50	90.00	
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.
A3163 Red Clover	J. B. Curry's Sons, (R) Palmyra, Pa.	G. 99.60	0.15	97.00	
	Atlantic Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3213 Red Clover	Stemler Hdw. Co., (R) Palmerton, Pa.	G. 97.55	0.71	94.00	0.12% inert matter. 1.62% crop seeds.
	E. J. Houck, (W) Bangor, Pa.	F.			Correct as labeled.
A3215 Red Clover	Major & Son, (R) Allentown, Pa.	G. 98.00	0.75	90.00	
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F.			Correct as labeled.
A3214 Red Clover	Castenbader Bros., (R) Palmerton, Pa.	G. 98.88	0.14	99.50	0.60% crop seeds.
	E. J. Houck & Son, (W) Bangor, Pa.	F.			Correct as labeled.
A3220 Red Clover	A. W. Sherman & Son, (R) Bloomsburg, Pa.	G. 99.00	0.53	92.00	
	Stanford Seed Co., (W) Binghamton, N. Y.	F.			Correct as labeled.
A3227 Red Clover	Stemler Hdw. Co., (R) Palmerton, Pa.	G. 99.34	0.24	90.00	0.12% inert matter. 0.30% crop seeds.
	Phila. Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3229 Red Clover	Fry Milling Co., (R) Cresson, Pa.	G. 99.56	0.16	94.00	
	Albert Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A3317 Red Clover	T. M. Griffith & Son, (R) Downingtown, Pa.	G. 98.82	0.30	88.00	0.28% inert matter.
	Phila. Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3326 Red Clover	John W. Sterling, (R) Linglestown, Pa.	G. 99.00	0.50	92.00	0.25% crop seeds.
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3329 Red Clover	B. S. Stauffer & Co., ------(R) Bellaire, Pa.	G.* 99.00	0.10	92.00	
	Sprecher & Ganss, --------(W) Lancaster, Pa.	F.* ------	--------	--------	Correct as labeled.
A3333 Red Clover	P. W. G. Raker, ----------(R) Elizabetbville, Pa.	G. 99.14	0.28	92.00	0.20% crop seeds.
	Doughten Seed Co., ------(W) Jersey City, N. J.	F. ------	--------	--------	Correct as labeled.
A3334 Red Clover	B. S. Stauffer & Co., ----(R) Lawn, Pa.	G. 99.00	0.10	92.00	
	Sprecher & Ganss, --------(W) Lancaster, Pa.	F. ------	--------	--------	Correct as labeled.
A3335 Red Clover	J. B. Secrist, ----------(R) Millerstown, Pa.	G. 99.00	0.30	90.00	0.40% inert matter. 0.40% crop seeds.
	Whitney-Eckstein, ----------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3349 Red Clover	E. S. Tbompson, ----------(R) Tbompsontown, Pa.	G. 99.00	0.50	92.00	0.25% alfalfa.
	Wm. G. Searlett, ----------(W) Baltimore, Pa.	F. ------	--------	--------	Correct as labeled.
A3350 Red Clover	B. S. Stauffer & Co., ------(R) Lawn, Pa.	G. 99.16	0.06	94.00	
	Albert Dickinson & Co., --(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3351 Red Clover	George S. Bleistein, -------(R) Myerstown, Pa.	G. 99.25	0.25	94.00	0.25% crop seeds.
	Atlantic Seed Co., --------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3364 Red Clover	Jones & Co. Hdw., -------(R) Pbilipsburg, Pa.	G. 98.34	0.50	93.00	
	Wm. G. Searlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3192 Red Clover	C. J. Cordell, ----------(R) Cresson, Pa.	G. 99.34	0.14	92.00	
	Albert Dickinson, ----------(W) Cbicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3193 Red Clover	I. L. Binder Hdw., --------(R) Hastings, Pa.	G. 99.00	0.64	90.00	
	Tbe Stanford Seed Co., ---(R) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3211	E. A. F. Kline, ----------(R) Fleetwood, Pa.	G. 99.00	0.25	90.00	0.22% inert matter. 0.53% crop seeds.
		F. ------	--------	--------	Correct as labeled.
A3302 Red Clover	Ed Miles Hdw., ----------(R) Portage, Pa.	G. 99.02	0.10	--------	0.02% inert matter.
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3301 Red Clover	B. N. Palmer & Co., ------(R) Portage, Pa.	G. 97.24	0.14	94.00	
	Stanford Seed Co., --------(W) Pittsburgb, Pa.	F. ------	--------	--------	Correct as labeled.
A3382 Red Clover	E. F. Kephart & Son Hdw. (R) Philipsburg, Pa.	G. 99.00	0.22	94.00	0.08% inert matter. 0.21% crop seeds.
	Phila. Seed Co., ----------(W) Pbila., Pa.	F. ------	--------	--------	Correct as labeled.
A3388 Red Clover	Elmer C. Ross, ----------(R) Lemont, Pa.	G. ------	--------	--------	Tag lost.
	John J. Buffington, -------(W) Baltimore, Md.	F. ------	--------	--------	
A3391 Red Clover	Wm. McClenahan, ---------(R) Centre Hall, Pa.	G. 99.32	0.20	92.00	0.36% inert matter. 0.12% crop seeds.
	N. Wertbeimer & Sons, ----(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3230 Red Clover	Houges Hdw. Co., (R) Cresson, Pa.	G.*			No tag.
	Nungesser-Dickinson Seed Co. (W) New York, N. Y.	F.*			
A3228 Red Clover	Sybert's Mill, (R) Nanty-Glo, Pa.	G. 98.00	0.50	93.00	0.50% inert matter. 1.00% crop seeds.
	N. Wertheimer & Sons, (W) Buffalo, N. Y.	F. 96.08	1.18		0.99% inert matter. 1.75% crop seeds.
A3242 Red Clover	Sybert's Mill, (R) Nanty-Glo, Pa.	G. 99.50	0.20	90.00	0.30% inert matter.
	N. Wertheimer & Sons, (W) Buffalo, N. Y.	F.			Correct as labeled.
A3249 Red Clover	Chapel's Seed Store, (R) Williamsport, Pa.	G. 99.38	0.06	93.00	0.36% inert matter. 0.20% crop seeds.
	N. Wertheimer & Sons, (W) Ligonier, Ind.	F.			Correct as labeled.
A3256 Red Clover	Chapel's Seed Store, (R) Williamsport, Pa.	G. 99.00	0.48	90.00	
	Craver-Dickinson, (W) Binghamton, N. Y.	F.			Correct as labeled.
A3268 Red Clover	F. M. Brown, (R) Shellington, Pa.	G. 99.00	0.30	90.00	0.25% inert matter. 0.45% crop seeds.
	Mays Seed Co., (W) Weiser Park, Pa.	F. 96.98	1.01		1.31% inert matter. 0.79% crop seeds.
A3273 Red Clover	R. O. Sendel, (R) Lehighton, Pa.	G. 98.50	0.50	90.00	0.50% inert matter. 0.50% crop seeds.
	Whitney-Eckstein, (W) Buffalo, N. Y.	F. 93.29	2.84		1.64% inert matter. 2.23% crop seeds.
A3276 Red Clover	Stichter Hdw. Co., (R) Reading, Pa.	G. 99.50	0.06	90.00	
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3393 Red Clover	I. J. Rohrbaugh, (R) Beech Creek, Pa.	G. 99.25	0.20	92.00	
	The Belt Seed Co., (W) Baltimore, Md.	F.			Correct as labeled.
A3395 Red Clover	Centre Milling Co., (R) Philipsburg, Pa.	G. 99.06	0.34	97.00	
	Craver-Dickinson Co., (W) Buffalo, N. Y.	F.			Correct as labeled.
A3402 Red Clover	Earl W. Hoffman, (R) Mechanicsburg, Pa.	G. 99.50	0.30	92.00	
	Stanford Seed Co., (W) Buffalo, N. Y.	F.			Correct as labeled.
A3176 Red Clover	Early & Detweiler, (R) Palmyra, Pa.	G.			No tag.
	Phila. Seed Co., (W) Phila., Pa.	F.			
A3185 Red Clover	I. L. Binder Hdw., (R) Hastings, Pa.	G. 99.00	0.08	92.00	
	The Stanford Seed Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A3190 Red Clover	E. F. Dumm, (R) Spangler, Pa.	G. 99.18	0.32	94.00	
	Albert Dickinson Co., (W) Chicago, Ill.	F.			Correct as labeled.
A3189 Red Clover	E. F. Dumm, (R) Spangler, Pa.	G. 99.16	0.24	93.00	
	Albert Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3188 Red Clover	The Barnesboro Mill, ------(R) Barnesboro, Pa.	G.* 99.35	0.35	90.00	0.30% inert matter.
	Cumberland Seed Co., ----(W) Cumberland, Md.	F.* ------	--------	--------	Correct as labeled.
A3187 Red Clover	V. A. Huber, ----------(R) Patton, Pa.	G. 99.20	0.16	92.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3283 Red Clover	John H. Erdman, ---------(R) Allentown, Pa.	G. 98.50	0.50	90.00	0.50% crop seeds.
	Atlantic Seed Co., ---------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3290 Red Clover	A. W. Masser, ----------(R) Reading, Pa.	G. 99.00	0.22	89.00	0.08% inert matter. 0.70% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3292 Red Clover	J. D. Hoffer, ----------(R) Portage, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3297 Red Clover	A. E. Crissiman, ----------(R) South Fork, Pa.	G. 99.00	0.08	99.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2887 Redtop	Emory Bupp, ----------(R) York, Pa.	G. 91.50	0.60	90.00	
	John J. Buffington, -------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2888 Redtop	D. E. Horne, ----------(R) York, Pa.	G. 90.00	1.25	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2980 Redtop	E. C. Noll, ----------(R) Lewisburg, Pa.	G. 92.00	1.00	90.00	
	Wm. G. Scarlett, -------(W) Baltimore, Md.	F. 89.52	1.65	--------	8.80% inert matter. 0.03% crop seeds.
A2970 Redtop	J. M. Phillips Sons, ------(R) Mercersburg, Pa.	G. 85.00	--------	--------	14.00% inert matter.
	Shultz Seed Co., ----------(W) Olney, N. Y.	F. ------	--------	--------	Correct as labeled.
A3063 Redtop	Emory V. Bupp, ----------(R) York, Pa.	G. 90.50	illegible	90.00	
	W. A. Simpson Co., -----(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3044 Redtop	D. E. Horne, ----------(R) York, Pa.	G. 91.10	1.80	91.00	
	Wm. G Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3111 Sweet Clover	W. B. Angle, ----------(R) Chambersburg, Pa.	G. 99.44	0.08	95.75	
	Belt Seed Co., ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3105 Sweet Clover	Walker Bros., ----------(R) Chambersburg, Pa.	G. 99.25	0.40	80.00	
	J. J. Buffington & Co., -(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3103 Sweet Clover	D. W. Faust & Sons, ----(R) Chambersburg, Pa.	G. 99.15	0.16	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3098 Sweet Clover	Chambersburg Grain Co., (R) Chambersburg, Pa.	G. ------	--------	--------	No tag.
	J. J. Buffington, ----------(W) Baltimore, Md.	F. ------	--------	--------	

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3144 Sweet Clover	Hollywood Poultry Farm, (R) Lewistown, Pa.	G.* 99.00	0.40	85.00	
	Blamberg Bros. Inc., ----(W) Baltimore, Md.	F.* ------	--------	--------	Correct as labeled.
A3134 Sweet Clover	Ulsh-Shinkel Hdw. Co., ---(R) Lewistown, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3124 Sweet Clover	Jas. A. Goss, ----------(R) Lewistown, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3150 Sweet Clover	H. C. Jones & Son, ------(R) Lebanon, Pa.	G. 99.00	0.21	90.00	
	The Atlantic Seed Co., ---(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3252 Sweet Clover	J. S. Hartley, ----------(R) Muncy, Pa.	G. 98.50	0.50	85.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3089 Sweet Clover	R. A. McClure, ----------(R) New Bloomfield, Pa.	G. 99.70	0.05	99.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2952 Sweet Clover	C. A. Phillips, ----------(R) Meyersdale, Pa.	G. 99.00	0.38	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2943 Sweet Clover	W. N. Cupp, ----------(R) Somerset, Pa.	G. 99.60	0.02	94.00	
	A. Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A2910 Sweet Clover	Wm. B. Barnitz, ----------(R) Carlisle, Pa.	G. 99.10	0.50	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2927 Sweet Clover	Somerset Milling Co., ----(R) Somerset, Pa.	G. 99.10	0.46	90.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2893 Sweet Clover	D. E. Horne, ----------(R) York, Pa.	G. ------	--------	--------	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	No tag. Quality: fair.
A2892 Sweet Clover	Emory Bupp, ----------(R) York, Pa.	G. 99.00	0.16	85.00	0.28% crop seeds.
	J. J. Buffington, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2984 Sweet Clover	Hair Bros., ----------(R) New Bloomfield, Pa.	G. 99.25	0.40	93.00	
	W. A. Simpson, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2981 Sweet Clover	E. C. Noll, ----------(R) Lewisburg, Pa.	G. 98.56	0.44	96.00	0.70% inert matter. 0.24% crop seeds.
	Phila. Seed Co., ----------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A2916 Sweet Clover	Barnett Bros., ----------(R) Jenners Cross Roads, Pa.	G. 99.10	0.46	97.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. 99.00	0.46	--------	0.30% inert matter. 0.24% crop seeds.
A3039 Sweet Clover	Harrisburg Seed Co., -----(R) Harrisburg, Pa.	G. 99.12	0.38	80.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2969	Mercersburg Grain Supply Co. (R) Mercersburg, Pa.	G.* 99.00	0.34	75.00	
Sweet Clover	John J. Buffington, --------(W) Baltimore, Md.	F.* ------	--------	--------	Correct as labeled.
A3032	Siegel Seed Store, ----------(R) Erie, Pa.	G. 99.40	0.10	94.00	0.12% crop seeds.
Sweet Clover	J. C. McCullough Seed Co. (W) Cincinnati, Ohio.	F. ------	--------	--------	Correct as labeled.
A3060	Emory V. Bupp, ----------(R) York, Pa.	G. 99.25	0.40	85.00	
Sweet Clover	John J. Buffington, --------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3056	C. M. Wolf, ----------(R) Gettysburg, Pa.	G. 98.50	0.50	90.00	0.50% crop seeds.
Sweet Clover	Doughten Seed Co., ------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3050	Jacob Swartz, ----------(R) York, Pa.	G. 99.50	0.12	85.00	
Sweet Clover	John J. Buffington, ------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3041	A. R. Thompson, ----------(R) Gettysburg, Pa.	G. 99.60	0.10	92.00	
Timothy	Wm. G. Scarlett, ----------(W) Baltimore, Pa.	F. ------	--------	--------	Correct as labeled.
A3046	D. E. Horne & Co., ------(R) York, Pa.	G. 99.85	0.10	90.00	
Timothy	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3048	Owings Bros., ----------(R) York, Pa.	G. 98.80	0.10	90.00	
Timothy	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3052	C. M. Wolf, ----------(R) Gettysburg, Pa.	G. 99.61	0.10	93.00	0.10% inert matter. 0.19% crop seeds.
Timothy	Doughten Seed Co., ------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3059	Anderson Grain & Feed Co. (R) York, Pa.	G. 99.65	0.05	95.00	
Timothy	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3061	Emory V. Bupp, ----------(R) York, Pa.	G. 99.60	0.15	92.00	
Timothy	W. A. Simpson & Co., ---(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3064	White Rose Seed Co., -----(R) York, Pa.	G. 99.00	0.20	91.00	
Timothy	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3065	Jacob Swartz, ----------(R) York, Pa.	G. 99.71	--------	96.00	
Timothy		F. ------	--------	--------	Correct as labeled.
A3069	Owings Bros., ----------(R) York, Pa.	G. 99.55	0.04	95.90	0.37% inert matter. 0.04% crop seeds.
Timothy	N. Wertheimer & Son, ----(W) Ligonier, Ind.	F. ------	--------	--------	Correct as labeled.
A3071	Cochran and Allen, --------(R) Carlisle, Pa.	G. 99.80	0.05	90.00	0.10% crop seeds.
Timothy	Whitney-Eckstein, ----------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3028	Harrisburg Seed Co., -----(R) Harrisburg, Pa.	G. 99.60	0.10	90.00	
Timothy	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3036 Timothy	E. Dateman & Son, --------(R) Milton, Pa.	G.* 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F.* ------	--------	--------	Correct as labeled.
A3035 Timothy	E. Datesman & Son, ------(R) Milton, Pa.	G. 99.55	--------	96.00	
	O. M. Scott & Sons Co. -(W) Marysville, Ohio.	F. ------	--------	--------	Correct as labeled.
A3029 Timothy	Siegel Seed Store, ---------(R) Erie, Pa.	G. 99.60	0.05	92.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2966 Timothy	Omwake Bros., ----------(R) Greeneastle, Pa.	G. 99.65	0.05	95.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A2968 Timothy	Mercersburg Grain Supply (R) Co., Mercersburg, Pa.	G. 99.60	0.10	90.00	0.15% crop seeds.
	John J. Buffington, -------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2973 Timothy	J. M. Philips Sons, --------(R) Mercersburg, Pa.	G. 99.50	0.05	94.00	
	Blamberg Bros., ----------(W) Baltimore, Pa.	F. ------	--------	--------	Correct as labeled.
A2978 Timothy	E. C. Noll, ----------(R) Lewisburg, Pa.	G. 99.80	0.06	92.00	0.10% inert matter. 0.04% crop seeds.
	Philadelphia Seed Co., ----(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A2991 Timothy	S. E. Rumft, ----------(R) New Milford, Pa.	G. 99.60	0.08	91.00	
	E. W. Conklin & Son, ----(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A2992 Timothy	A. C. Bullard, ----------(R) Towanda, Pa.	G. 99.65	0.05	92.00	
	E. W. Conklin & Son, ----(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A2996 Timothy	Glenn E. Tingley, ----------(R) New Milford, Pa.	G. 99.60	0.10	92.00	
	Stanford Seed Co., --------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3002 Timothy	Farmers Coop. Assoc., ----(R) Wysox, Pa.	G. 99.50	0.10	92.00	0.20% inert matter. 0.20% crop seeds.
	G. L. F. Exchange, -------(W) Syracuse, N. Y.	F. ------	--------	--------	Correct as labeled.
A3003 Timothy	D. Luther Bogenrief, ------(R) Mifflinburg, Pa.	G. 99.60	0.05	90.00	0.10% crop seeds.
	John J. Buffington, --------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3006 Timothy	J. K. Slawson Estate, ----(R) Tunkhannock, Pa.	G. 99.65	0.05	93.00	
	Craver-Dickinson, ----------(R) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3009 Timothy	Mifflinburg Farmers Exchange ----------(R) Mifflinburg, Pa.	G. 99.60	0.05	92.00	
	Stanford Seed Co., -------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3011 Timothy	Andre and Sweet, ----------(R) Montrose, Pa.	G. 99.50	1.00	92.00	0.20% inert matter. 0.20% crop seeds.
	G. L. F. Exchange, --------(W) Syracuse, N. Y.	F. ------	--------	--------	Correct as labeled.

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Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3015 Timothy	Preston Jaquish, ----------(R) Troy, Pa.	G.* 99.60	0.10	95.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F.* ------	--------	--------	Correct as labeled.
A3017 Timothy	Luther Boginrief, ----------(R) Mifflinburg, Pa.	G. 99.60	0.10	90.00	0.15% crop seeds.
	John J. Buffington, --------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3018 Timothy	Mifflinburg Farmers Exchange ----------(R) Mifflinburg, Pa.	G. 99.60	0.10	95.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A2877 Timothy	Hespenheide & Thompson, -(R) York, Pa.	G. 99.50	0.11	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2878 Timothy	Owings Bros., ----------(R) York, Pa.	G. 99.75	0.10	95.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2879 Timothy	Emory Bupp, ----------(R) York, Pa.	G. 99.65	0.05	94.00	
	W. A. Simpson & Co., ----(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2880 Timothy	D. E. Horne, ----------(R) York, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	First quality seed.
A2881 Timothy	Charles Newcomer, ---------(R) York, Pa.	G. 99.60	0.05	90.00	0.10% alsike.
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2882 Timothy	Anderson Grain & Feed Co. (R) York, Pa.	G. 99.60	0.05	94.00	
	W. A. Simpson Co., ------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A2915 Timothy	Barnett Bros., ----------(R) Jenners Cross Roads, Pa.	G. 99.70	0.05	94.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. 99.68	0.04	--------	0.28 inert matter.
A2926 Timothy	C. A. Phillips, ----------(R) Meyersdale, Pa.	G. 99.60	0.05	95.00	
	A. Dickinson Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3219 Timothy	John W. Detweiler, ----------(R) Kutztown, Pa.	G. 99.60	0.10	91.00	0.13% inert matter. 0.17% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3222 Timothy	Ash Bros., ----------(R) Briar Creek, Pa.	G. 99.60	0.05	93.00	
	Stanford Seed Co., --------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3231 Timothy	Houges Hdw. Co., --------(R) Cresson, Pa.	G. 99.65	0.05	94.00	
	Albert Dickinson Co., ----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3236 Timothy	A. F. Stutzman, ----------(R) Johnstown, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3237 Timothy	A. F. Stutzman, ----------(R) Johnstown, Pa.	G. 99.60	0.05	94.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.

G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3340 Timothy	Mexico Roller Mills, --------(R) Mexico, Pa.	G.* 99.00	0.05	92.00	0.20% inert matter. 0.15% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F.* ------	--------	--------	Correct as labeled.
A3342 Timothy	B. W. Fees, ----------(R) Tower City, Pa.	G. 99.50	0.05	93.00	0.45% inert matter.
	Cumberland Seed Co., ----(W) Cumberland, Md.	F. -------	--------	--------	Correct as labeled.
A3346 Timothy	E. S. Thompson, ----------(R) Thompsontown, Pa.	G. 99.00	0.10	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3265 Timothy	H. J. F. Major & Son, ----(R) Allentown, Pa.	G. 99.60	0.10	90.00	0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3267 Timothy	Stichter Hdw. Co., -------(R) Reading, Pa.	G. 99.60	0.05	90.00	0.10% crop seeds.
	John Buffington, ----------(W) Baltimore, Pa.	F. -------	--------	--------	Correct as labeled.
A3270 Timothy	Lehighton Hdw. Co., -----(R) Lehighton, Pa.	G. 99.80	0.24	97.00	0.06% inert matter. 0.10% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3278 Timothy	Hadesty Hdw. Co., -------(R) Tamaqua, Pa.	G. 99.28	0.20	90.00	0.40% inert matter. 0.12% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3314 Timothy	L. L. Moyer, ----------(R) Cochranville, Pa.	G. ------	--------	--------	No tag.
	A. Dickinson Co., ---------(W) Chicago, Ill.	F. -------	--------	--------	
A3315 Timothy	Great Valley Mills, ---------(R) Paoli, Pa.	G. ------	--------	--------	No tag.
	Atlantic Seed Co., --------(W) Phila., Pa.	F. -------	--------	--------	
A3316 Timothy	A. W. Maxwell & Son, ----(R) Downingtown, Pa.	G. 99.65	0.05	92.00	0.20% inert matter.
	Doughten Seed Co., ------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3320 Timothy	G. C. Gawthrop Co., -----(R) Kennett Square, Pa.	G. 99.50	0.10	90.00	0.20% inert matter.
	E. M. Thomas Sons, ------(W) Torresdale, Pa.	F. -------	--------	--------	Correct as labeled.
A3321 Timothy	G. C. Gawthrop Co., -----(R) Kennett Square, Pa.	G. ------	--------	--------	No tag.
	Albert Dickinson Co., ----(W) Chicago, Ill.	F. -------	--------	--------	
A3357 Timothy	Centre Milling Co., --------(R) Philipsburg, Pa.	G. 99.65	0.05	94.00	
	Craver Dickinson Co., ----(W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3362 Timothy	A. L. Lebo Hdw. Co., ----(R) Myerstown, Pa.	G. 99.85	--------	92.00	0.15% inert matter.
	Mays Seed Co., ----------(W) Weiser Park, Pa.	F. -------	--------	--------	Correct as labeled.
A3366 Timothy	Progress Mill, ----------(R) Progress, Pa.	G. 99.39	0.12	91.75	
	Paxton Flour & Feed Co. (W) Hbg., Pa.	F. -------	--------	--------	Correct as labeled.
A3371 Timothy	Clarence Coop. Asso., ----(R) Clarence, Pa.	G. 99.60	0.05	94.00	
	Albert Dickinson Co., ------(W) Chicago, Ill.	F. -------	--------	--------	Correct as labeled.

G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3341 Timothy	George E. Schafner, ------(R) Hummelstown, Pa.	G.* 99.60	0.05	93.00	0.10% crop seeds.
	Albert Dickinson, ----------(W) Chicago, Ill.	F.* ------	--------	--------	Correct as labeled.
A3344 Timothy	B. W. Fees, ----------(R) Tower City, Pa.	G. 99.85	--------	--------	0.15% inert matter.
	Mays Seed Co., ----------(W) Weiser Park, Pa.	F. ------	--------	--------	Correct as labeled.
A3343 Timothy	Lykens Valley Roller Mills (R) Elizabethville, Pa.	G. 99.55	0.05	55.00	0.20% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3345 Timothy	Juniata Rolling Mills, -----(R) Thompsontown, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3355 Timothy	W. H. Manbeck & Co., ---(R) Mifflin, Pa.	G. 99.50	0.20	92.00	
	Wm. G. Scarlett & Co., --(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3354 Timothy	J. O. Reed Estate, --------(R) Philipsburg, Pa.	G. 99.60	0.10	91.00	0.13% inert matter. 0.17% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3353 Timothy	R. W. Wertz, ----------(R) Wernersville, Pa.	G. 99.65	0.08	91.50	
	The Atlantic Seed Co., ----(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3361 Timothy	R. W. Wertz, ----------(R) Wernersville, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3360 Timothy	R. W. Wertz, ----------(R) Wernersville, Pa.	G. 99.60	0.05	93.00	0.25% inert matter. 0.10% crop seed.
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3322 Timothy	Phoenixville Supply Co., -(R) Phoenixville, Pa.	G. 99.60	0.05	92.00	
	Atlantic Seed Co., --------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3327 Timothy	E. S. Miller, ----------(R) Harrisburg, Pa.	G. 99.60	0.10	92.00	
	The Atlantic Seed Co., ----(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3328 Timothy	R. W. G. Raker, ----------(R) Elizabethville, Pa.	G. 99.65	0.09	92.00	0.16% inert matter.
	Doughten Seed Co., ------(W) Jersey City, N. J.	F. ------	--------	--------	Correct as labeled.
A3331 Timothy	A. H. Ulsh and Son, ------(R) Millerstown, Pa.	G. 99.50	0.05	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3338 Timothy	J. B. Secrist, ----------(R) Millerstown, Pa.	G. 99.68	0.05	92.00	0.12% inert matter. 0.15% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3339 Timothy	Wisehaupt Sons & Co., ---(R) Port Royal, Pa.	G. 99.60	0.05	92.00	0.15% crop seeds.
	Doughten Seed Co., ------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.

G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3369 Timothy	George S. Bleistein Sr., ---(R) Myerstown, Pa.	G.* 99.65	0.09	90.00	
	The Atlantic Seed Co., ----(W) Phila., Pa.	F.* ------	--------	--------	Correct as labeled.
A3368 Timothy	Mays Seed Co., ----------(R) Womelsdorf, Pa.	G. 99.60	0.05	93.00	0.25% inert matter. 0.10% crop seeds.
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3373 Timothy	Elmer C. Ross, ----------(R) Lemont, Pa.	G. 99.78	0.02	95.00	0.15% inert matter. 0.05% crop seeds.
	N. Wertheimer & Sons, ---(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3375 Timothy	William McClenahan, ------(R) Centre Hall, Pa.	G. 99.55	0.05	94.00	0.05% inert matter. 0.35% crop seeds.
	N. Wertheimer & Sons, --(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3183 Timothy	I. L. Binder Hdw. Co., --(R) Hastings, Pa.	G. ------	--------	--------	No tag.
	The Wrigley Co. Inc., ----(W) Mahaffey, Pa.	F. ------	--------	--------	
A3182 Timothy	V. A. Huber, ----------(R) Patton, Pa.	G. 99.75	0.05	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3181 Timothy	The Barnesboro Mill, ------(R) Barnesboro, Pa.	G. 99.60	0.05	93.00	
	Cumberland Seed Co., -----(W) Cumberland, Md.	F. ------	--------	--------	Correct as labeled.
A3180 Timothy	E. F. Dumm, ----------(R) Spangler, Pa.	G. 99.60	0.05	93.00	
	Albert Dickinson Co., ----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3184 Timothy	C. J. Cordell, ----------(R) Patton, Pa.	G. 99.65	0.05	94.00	
	Albert Dickinson Co., ----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3198 Timothy	S. G. Updegraff & Son, --(R) Williamsport, Pa.	G. 99.60	0.05	90.00	
	Whitney-Noyse Co., --------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3199 Timothy	Kern and Moser, ----------(R) Neffs, Pa.	G. 99.65	0.05	94.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3200 Timothy	Frey's Hdw. Co., ----------(R) Muncy, Pa.	G. 99.00	0.20	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3201 Timothy	T. B. Brobst, ----------(R) Berwick, Pa.	G. 99.60	0.10	92.00	
	Stanford Seed Co., -------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3394 Timothy	Bradford & Co., ----------(R) Centre Hall, Pa.	G. 99.60	0.05	92.00	
	Stanford Seed Co., -------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3397 Timothy	E. J. Rogers, ----------(R) Emporium, Pa.	G. 99.65	0.08	94.00	0.23% inert matter. 0.04% crop seeds.
	Harvey Seed Co., ---------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.

G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3398 Timotby	Emporium Milling Co., ---(R) Emporium, Pa.	G.* 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F.* ------	--------	--------	Correct as labeled.
A3403 Timotby	Paxton Flour & Feed Co., (R) Bowmansdale, Pa.	G. 99.50	0.10	92.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3409 Timothy	Frank Eberly, ----------(R) Shiremanstown, Pa.	G. 99.70	0.10	92.00	0.15% inert matter. 0.05% crop seeds.
	Doughten Seed Co., -------(W) Philadelphia, Pa.	F. ------	--------	--------	Correct as labeled.
A3173 Timothy	A. M. Brandt, ----------(R) Campbelltown, Pa.	G. 99.85	--------	92.00	0.15% inert matter.
	Mays Seed Co., ----------(W) Womelsdorf, Pa.	F. ------	--------	--------	Correct as labeled.
A3174 Timothy	J. B. Curry's Sons, -------(R) Swatara, Pa.	G. 99.60	0.05	92.00	
	Stanford Seed Co., --------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3175 Timothy	Newgard Tice, ----------(R) Annville, Pa.	G. 99.60	0.05	93.00	0.25% inert matter.
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3300 Timotby	Claycomb Bros., ----------(R) Summerhill, Pa.	G. 99.60	0.05	94.00	
	Stanford Seed Co., --------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3203 Timotby	N. W. Moore Hdw. Co., --(R) Portage, Pa.	G. 99.65	0.05	94.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3304 Timothy	Millersburg Milling Co., ----(R) Millersburg, Pa.	G. 99.00	0.05	92.00	
	Stanford Seed Co., --------(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3380 Timotby	W. T. Hoover, ----------(R) Port Matilda, Pa.	G. 99.65	0.05	94.00	
	Craver Dickinson Seed Co. (W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3385 Timothy	A. A. Schenck, ----------(R) Howard, Pa.	G. 99.60	0.10	90.00	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3386 Timotby	Edwards Hdw. Co., ------(R) Ebensburg, Pa.	G. 99.50	0.16	94.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3387 Timothy	Edwards Hdw. Co., -------(R) Ebensburg, Pa.	G. 99.65	0.05	95.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3389 Timothy	Emporium Milling Co., ----(R) Emporium, Pa.	G. 99.00	--------	90.00	0.20% inert matter. 0.70% foreign seeds.
	Mayer Grain Co., ----------(W) So. Whitley, Ind.	F. ------	--------	--------	Correct as labeled.
A3390 Timotby	B. Weber & Son, ----------(R) Howard, Pa.	G. 99.84	0.10	92.00	
	The Belt Seed Co., --------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.

G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2962 Timothy	E. M. Robinson, ----------(R) Holidaysburg, Pa.	G.* 99.75	0.12	94.00	
	Belt Seed Co., ----------(W) Baltimore, Md.	F.* ------	--------	--------	Correct as labeled.
A2965 Timothy	Farmers Elevator Co., ----(R) Mercersburg, Pa.	G. ------	--------	--------	
	Wm. G. Scarlett, ---------(W) Baltimore, Md.	F. 99.49	0.02	80.25	0.31% inert matter. 0.18% crop seeds.
A3285 Timothy	E. Z. Sheaffer, ----------(R) Ephrata, Pa.	G. 99.78	0.10	92.00	0.06% inert matter. 0.06% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3289 Timothy	A. W. Masser, ----------(R) Reading, Pa.	G. 99.60	0.04	90.00	0.26% inert matter. 0.10% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3288 Timothy	A. W. Masser, ----------(R) Reading, Pa.	G. 99.60	0.05	92.00	
	Atlantic Seed Co., ---------(R) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3293 Timothy	W. R. Kirby, ----------(R) Summerhill, Pa.	G. ------	--------	--------	No tag.
		F. -------	--------	--------	
A3294 Timothy	J. D. Hopper, ----------(R) Portage, Pa.	G. ------	--------	--------	No tag.
		F. -------	--------	--------	
A3298 Timothy	Louis Sherer's Grist Mill, --(R) South Fork, Pa.	G. 99.65	0.02	94.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. -------	--------	--------	Correct as labeled.
A3132 Timothy	J. A. Goss, ----------(R) Lewistown, Pa.	G. 99.75	--------	92.00	0.25% inert matter.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3131 Timothy	Ulsh-Shinkel Hdw. Co., ----(R) Lewistown, Pa.	G. 99.60	0.10	--------	0.13% inert matter. 0.17% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. -------	--------	--------	Correct as labeled.
A3129 Timothy	Franciscus Co., ----------(R) Lewistown, Pa.	G. 99.60	0.05	92.00	
	W. A. Simpson Co., ------(W) Baltimore, Md.	F. -------	--------	--------	Correct as labeled.
A3128 Timothy	Lewistown Ice & Storage Co.(R) Lewistown, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3126 Timothy	Logan Milling Co., --------(R) Lewistown, Pa.	G. 99.60	0.05	82.00	0.20% inert matter. 0.15% crop seeds.
	Doughten Seed Co., --------(W) Philadelphia, Pa.	F. -------	--------	--------	Correct as labeled.
A3120 Timothy	Hollywood Poultry Farm, (R) Lewistown, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3147 Timothy	Lebanon Hdw. Co., --------(R) Lebanon, Pa.	G 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. -------	--------	--------	Correct as labeled.
A3148 Timothy	H. C. Jones & Son, -------(R) Lebanon, Pa.	G. 99.65	0.05	94.00	
	Albert Dickinson Co., ----(W) Chicago, Ill.	F. -------	--------	--------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3152 Timothy	Lebanon Inp. & Supply Co. (R) Lebanon, Pa.	G.* 99.60	0.05	92.00	0.20% inert matter.
	Doughten Seed Co., -------(W) Phila., Pa.	F.* ------	--------	--------	Correct as labeled.
A3153 Timothy	Mt. Rock Milling Co., ----(R) Lewistown, Pa.	G. 99.60	0.05	82.00	0.20% inert matter. 0.15% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3076 Timothy	Dillsburg Grain & Milling Co. ----------(R) Dillsburg, Pa.	G. 99.75	0.05	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3075 Timothy	Dillsburg Grain & Milling Co. ----------(R) Dillsburg, Pa.	G. 99.60	0.15	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3074 Timothy	Adams Co. Farm Bur., ---(R) Gettysburg, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co. (W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3115 Timothy	D. W. Faust & Son, ------(R) Chambersburg, Pa.	G. 99.06	0.05	92.00	
	Stanford Seed Co., ---------(W) Pittsburgh, Pa.	F. ------	--------	--------	Correct as labeled.
A3113 Timothy	W. B. Angle, ----------(R) Chambersburg, Pa.	G. 99.00	0.08	93.00	0.24% inert matter.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3112 Timothy	W. B. Angle, ----------(R) Chambersburg, Pa.	G. 99.06	0.10	90.00	
	John J. Buffington & Co.,(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3099 Timothy	Chambersburg Grain Co., (R) Chambersburg, Pa.	G. 99.70	0.01	92.00	0.15% inert matter. 0.05% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3092 Timothy	Walker Bros., ----------(R) Chambersburg, Pa.	G. 99.06	0.05	94.00	
	Albert Dickinson Co., -----(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3142 Timothy	Lewistown Feed & Supply Co. ----------(R) Lewistown, Pa.	G. 90.60	0.05	82.00	0.20% inert matter. 0.15% crop seeds.
	Doughten Seed Co., --------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3138 Timothy	S. G. Hostetter, ---------(R) Lebanon, Pa.	G. ------	--------	--------	No tag.
		F. ------	--------	--------	
A3083 Timothy	Hair Bros., ----------(R) New Bloomfield, Pa.	G. 99.52	0.10	91.00	0.18% inert matter. 0.20% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3084 Timothy	Stanley O. Fickes, --------(R) Newport, Pa.	G. 99.00	0.15	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3085 Timothy	W. K. Clouser Hdw. Co., (R) New Bloomfield, Pa.	G. 99.00	0.05	92.00	0.21% inert matter.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3086 Timothy	F. A. Snyder & Co., ------(R) Newport, Pa.	G.* 99.55	0.05	94.00	0.05% inert matter. 0.35% crop seeds.
	N. Wertheimer & Son, ----(W) Ligonier, Ind.	F.* ------	--------	--------	Correct as labeled.
A3087 Timothy	Duncannon Flour Mills, ----(R) Duncannon, Pa.	G. 99.60	0.05	92.00	
	Atlantic Seed Co., ---------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3082 Timothy	R. A. McClure, ----------(R) New Bloomfld, Pa.	G. 99.52	0.10	91.00	0.18% inert matter. 0.20% crop seeds.
	Phila. Seed Co., ----------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.
A3081 Timothy	Paxton Flour & Feed Co. --(R) Harrisburg, Pa.	G. 99.24	0.08	90.00	0.30% crop seeds.
	John J. Buffington, -------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3080 Timothy	Paxton Flour & Feed Co. --(R) Harrisburg, Pa.	G. 99.50	0.05	94.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3154 Timothy	W. I. Dougherty & Son, --(R) Altoona, Pa.	G 99.60	0.10	92.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3155 Timothy	Fox & Fox, ----------(R) Altoona, Pa.	G. 99.60	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co.,(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3156 Timothy	S. J. Wolf Hdw. Co., -----(R) Altoona, Pa.	G. 99.16	0.10	90.00	0.20% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co.,(W) Buffalo, N. Y.	F. ------	--------	--------	Correct as labeled.
A3160 Timothy	A. G. Sellers, ----------(R) Annville, Pa.	G. 99.46	0.05	92.25	
	Paxton Flour & Feed Co.,--(W) Harrisburg, Pa.	F. ------	--------	--------	Correct as labeled.
A3161 Timothy	Annville Flouring Mills, ----(R) Annville, Pa.	G. 99.46	0.05	92.25	
	Paxton Flour & Feed Co.,--(R) Harrisburg, Pa.	F. ------	--------	--------	Correct as labeled.
A3168 Timothy	J. A. Shuey, ----------(R) Hummelstown, Pa.	G. 99.39	0.12	--------	
	Paxton Flour & Feed Co.,--(R) Harrisburg, Pa.	F. ------	--------	--------	Correct as labeled.
A3239 Timothy	Syberts Mills, ----------(R) Nanty-Glo, Pa.	G. 99.55	0.05	94.00	
	Albert Dickinson, ----------(W) Chicago, Ill.	F. ------	--------	--------	Correct as labeled.
A3240 Timothy	Reisenweaver & Tressler, ---(R) Conyngham, Pa.	G. 99.60	0.10	90.00	
	Wm. G. Scarlett, ----------(W) Baltimore, Md.	F. ------	--------	--------	Correct as labeled.
A3243 Timothy	A. W. Shuman & Son, ----(R) Bloomsburg, Pa.	G. 99.60	0.10	92.00	
	Stanford Seed Co., ---------(W) Binghamton, N. Y.	F. ------	--------	--------	Correct as labeled.
A3248 Timothy	John H. Erdman, ----------(R) Allentown, Pa.	G. 99.65	0.05	92.00	0.10% crop seeds.
	Doughten Seed Co., -------(W) Phila., Pa.	F. ------	--------	--------	Correct as labeled.

G*—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A3251 Timothy	J. S. Hartley, (R) Muncy, Pa.	G.* 99.00	0.05	92.00	
	Stanford Seed Co., (W) Buffalo, N. Y.	F.*			Correct as labeled.
A3254 Timothy	Kline & Co., (R) Williamsport, Pa.	G. 99.60	0.06	91.00	0.20% inert matter. 0.14% crop seeds.
	Phila. Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3255 Timothy	Chapels Seed Store, (R) Williamsport, Pa.	G. 99.60	0.05	94.00	
	Albert Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A3257 Timothy	Bard Hdw. Co., (R) Reading, Pa.	G. 99.70	0.05	90.00	0.15% inert matter. 0.10% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F.			Correct as labeled.
A3262 Timothy	F. M. Brown, (R) Shillington, Pa.	G. 99.85		92.00	0.15% inert matter.
	Mays Seed Co., (W) Weiser Park, Pa.	F.			Correct as labeled.
A3207 Timothy	W. W. Wellwic Hdw. Co., (R) Danville, Pa.	G. 99.65	0.05	95.00	
	Albert Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A3206 Timothy	H. B. Sharpless, (R) Bloomsburg, Pa.	G. 99.60	0.10	90.00	
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.
A3205 Timothy	Ash Bros., (R) Briar Creek, Pa.	G. 99.80	0.05	90.00	0.05% crop seeds.
	N. Wertheimer & Sons, (W) Ligonier, Ind.	F.			Correct as labeled.
A3204 Timothy	M. F. Williams, Jr., (R) Nescopeck, Pa.	G. 99.60	0.10	91.00	0.13% inert matter. 0.17% crop seeds.
	Phila. Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A2931 Timothy	Schettig Hdw. Co., (R) Ebensburg, Pa.	G. 98.90	0.15	94.00	0.65% inert matter. 0.30% crop seeds.
	N. Wertheimer & Sons, (W) Ligonier, Ind.	F.			Correct as labeled.
A2940 Timothy	Swope Bros., (R) Johnstown, Pa.	G.			
	A. Dickinson, (W) Chicago, Ill.	F.			No tag. Quality: A-1.
A2941 Timothy	Schettig Hdw. Co., (R) Ebensburg, Pa.	G. 99.75	0.05	94.00	0.15% inert matter. 0.05% crop seeds.
	N. Wertheimer, (W) Ligonier, Ind.	F.			Correct as labeled.
A2947 Timothy	H. C. Beeritz Sons, (R) Somerset, Pa.	G. 99.00	0.05	93.00	
	A. Dickinson, (W) Chicago, Ill.	F.			Correct as labeled.
A2948 Timothy	Penrose Wolf, (R) Rockwood, Pa.	G. 99.60	0.05	96.00	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A2949 Timothy	Somerset Milling Co., (R) Somerset, Pa.	G. 99.60	0.05	96.00	
	Stanford Seed Co., (W) Pittsburgh, Pa.	F.			Correct as labeled.
A2950 Timothy	C. A. Phillips, (R) Meyersdale, Pa.	G. 99.85	0.10	90.00	
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.

G*—Information given by seedsman. *F—Information found by our analysis.

Number and Name of Seed Sample	R.—Retailer W.—Wholesaler or Grower	Per Cent Pure Seed	Per Cent Weeds	Per Cent Germination	Remarks
A2956 Timothy	Swank Hdw. Co., (R) Johnstown, Pa.	G.* 99.65	0.05	94.00	
	Whitney-Eckstein, (W) Buffalo, N. Y.	F.*			Correct as labeled.
A2959 Timothy	John Emert, (R) Somerset, Pa.	G. 99.80		91.00	0.18% inert matter.
	Churchil Grain & Feed Co., (W) Toledo, Ohio.	F.			Correct as labeled.
A3166 White Clover	J. M. Burkholder, (R) Hummelstown, Pa.	G.			No tag.
		F.			
A3157 White Clover	Fox & Fox, (R) Altoona, Pa.	G. 97.90	0.50	85.00	1.35% crop seeds.
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3151 White Clover	Uhler & Kline Co., (R) Lebanon, Pa.	G. 97.00	1.20	90.00	
	The Atlantic Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A3122 White Clover	Mifflin Co. Hdw. Co., (R) Lewistown, Pa.	G.			No tag.
		F.			
A3133 White Clover	J. A. Goss, (R) Lewistown, Pa.	G.			No tag.
		F.			
A3169 White Clover	W. B. Angle, (R) Chambersburg, Pa.	G. 97.00	0.75	90.00	
	Atlantic Seed Co., (W) Phila., Pa.	F.			Correct as labeled.
A2955 White Clover	Swank Hdw. Co., (R) Johnstown, Pa.	G. 95.00	1.00	90.00	2.00% inert matter. 2.00% crop seeds.
	Whitney-Eckstein, (W) Buffalo, N. Y.	F.			Correct as labeled.
A2890 White Clover	Owings Bros., (R) York, Pa.	G. 98.70	0.50	92.00	
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.
A3271 White Clover	Stichter Hdw. Co., (R) Reading, Pa.	G. 97.00		87.00	1.75% crop seeds.
	J. J. Buffington, (W) Baltimore, Md.	F.			Correct as labeled.
A3247 White Clover	Swank Hdw. Co., (R) Johnstown, Pa.	G. 95.00	1.00	87.00	2.00% inert matter. 2.00% crop seeds.
	Whitney-Eckstein Seed Co., (W) Buffalo, N. Y.	F.			Correct as labeled.
A3241 White Clover	H. B. Sharpless (R) Bloomsburg, Pa.	G. 97.00	0.80	85.00	1.80% alsike.
	Wm. G. Scarlett, (W) Baltimore, Md.	F.			Correct as labeled.

*G—Information given by seedsman. *F—Information found by our analysis.

PENNSYLVANIA DEPARTMENT OF AGRICULTURE

C. G. JORDAN, *Secretary of Agriculture* R. G. BRESSLER, *Deputy Secretary*

This Department is essentially a service agency created by legislative enactment to deal with administrative, regulatory, investigational, and educational problems which can best be solved through public rather than individual action. The organization provides for coordination and cooperation with the Pennsylvania State College and the U. S. Department of Agriculture. The Department operates through the following bureaus:

ANIMAL INDUSTRY: T. E. MUNCE, *Director and State Veterinarian*

Prevents and eradicates transmissible diseases of animals and poultry, including tuberculosis of animals in cooperation with Federal Government.

Demonstrates to veterinarians control methods for transmissible animal diseases;

Supervises vaccination for and the prevention of hog cholera, anthrax, black leg and hemorrhagic septicemia;

Protects public from unwholesome meats through ante and post mortem examinations of animals at slaughtering establishments;

Inspects, licenses and furnishes information as to breeding, soundness and conformation of stallions and jacks standing for public service;

Enforces law requiring licensing of dogs and providing for protection of livestock and people from attacks of uncontrolled dogs;

Maintains laboratory for diagnostic research and experimental projects.

PLANT INDUSTRY: R. H. BELL, *Director*

Tests agricultural seeds for purity and germination, and enforces State Seed Law;

Inspects orchards, parks, farms, and plant imports for injurious insects and plant diseases;

Inspects and licenses Pennsylvania nurseries, and licenses all dealers in nursery stock;

Enforces laws governing apicultural practices, disease control and housing;

Places and enforces quarantines and carries on eradiction campaigns against insect pests and plant diseases;

Inspects and certifies potatoes for seed purposes;

Makes investigations for the control of injurious insects and plant diseases including field tests of insecticides, fungicides and weed killers;

Maintains collections of insects, plant diseases, plants, and seeds, and identifies specimens.

FOODS AND CHEMISTRY: JAMES W. KELLOGG, *Director—Chief Chemist*

Accomplishes its purpose of protecting Pennsylvania homes against harmful foodstuffs by sampling, analyzing, and bringing prosecution under the laws relating to foods and non-alcholic drinks, including milk, cream, butter, ice-cream, eggs, sausage, fresh meats, soft drinks, fruit syrups, vinegar and kindred food products;

Regulates and issues licenses for the manufacture and sale of oleomargarine;

Licenses and regulates egg-opening plants and cold storage warehouses, maintaining regular inspection and enforcing twelve-month storage limit;

Inspects milk plants and creameries and regulates weighing, testing, buying and selling of milk and cream on a butterfat basis;

Protects honest manufacturers, importers, selling agents and ultimate users of feeding stuffs, fertilizers, lime products, linseed oil, paint, putty, turpentine, insecticides and fungicides, by means of annual registrations followed by inspections, analyses, prosecutions and the publication of the analyses of these products;

Analyzes special samples for residents of the State at the rate of $1.00 a sample for feeding stuffs, lime products and linseed oils.

MARKETS: GEO. A. STUART, *Acting Director*

Investigates and assists in the marketing of farm products; at present chiefly grain and hay, fruits and vegetables, poultry and eggs, and tobacco;

Compiles and distributes daily market information as to supplies, shipments and prices;

Advises growers on transportation of agricultural products;

Assists cooperative associations and public markets;

Establishes standard grades of farm products and maintains inspection.

STATISTICS: L. H. WIBLE, *Director*

Assembles and disseminates essential statistics and facts pertaining to the agriculture of the State, from monthly reports rendered by hundreds of volunteer crop correspondents, information which assists the producer in his sales and interests all industries which deal with agricultural products;

Cooperates with U. S. Bureau of Agricultural Economics in joint crop and livestock reporting and publishes annual and monthly summaries of the data;

Compiles dates of county and local fairs and assembles data pertaining to their success and results during each year.